

Supplementary material S1 for the following article:

Tonalite-dominated magmatism in the Abitibi Subprovince, Canada, and significance for Cu-Au magmatic-hydrothermal systems

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Journal: MDPI – Minerals

Description: Geology and chemistry of tonalite-dominated plutons of the Abitibi Subprovince

Data source:

- Sigeom dataset (<http://sigeom.mines.gouv.qc.ca>) - compiled by the *Ministère de l'Énergie et des Ressources Naturelles* of Québec (MERN)
- Ontario Geological Survey (OGS) data compiled by the Metal Earth project (<https://merc.laurentian.ca/research/metal-earth/superior-compilation>).
- Beakhouse, G. P. The Abitibi Subprovince plutonic record: Tectonic and metallogenic implications; Open File report 6268, Ontario Geological Survey, Sudbury, ON, Canada, 2011

Eastern Abitibi Subprovince

(Sigeom dataset, MERN)

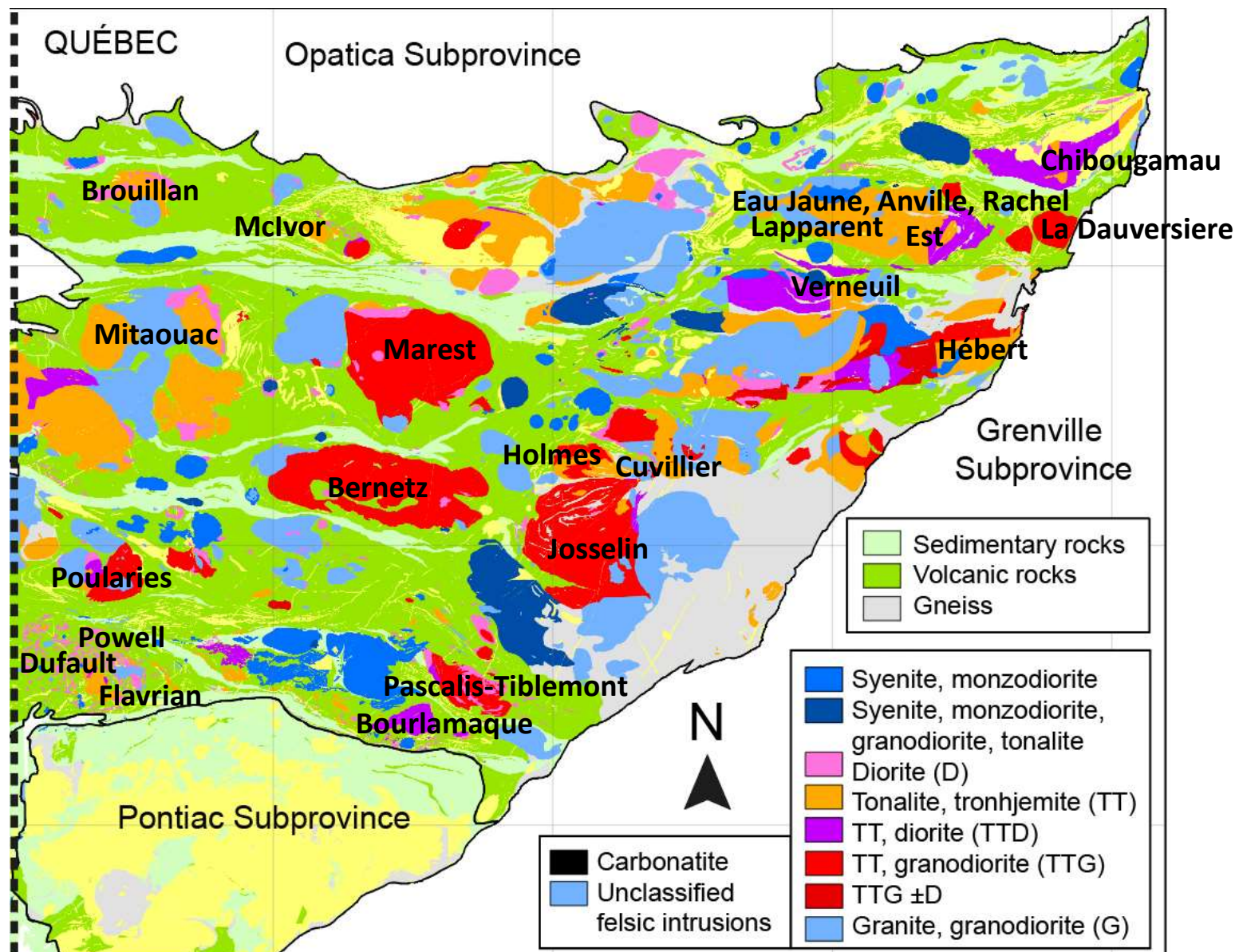


Figure 1 (see manuscript for details)

Intermediate and felsic intrusions characterized by $(\text{La}/\text{Yb})_N > 6$

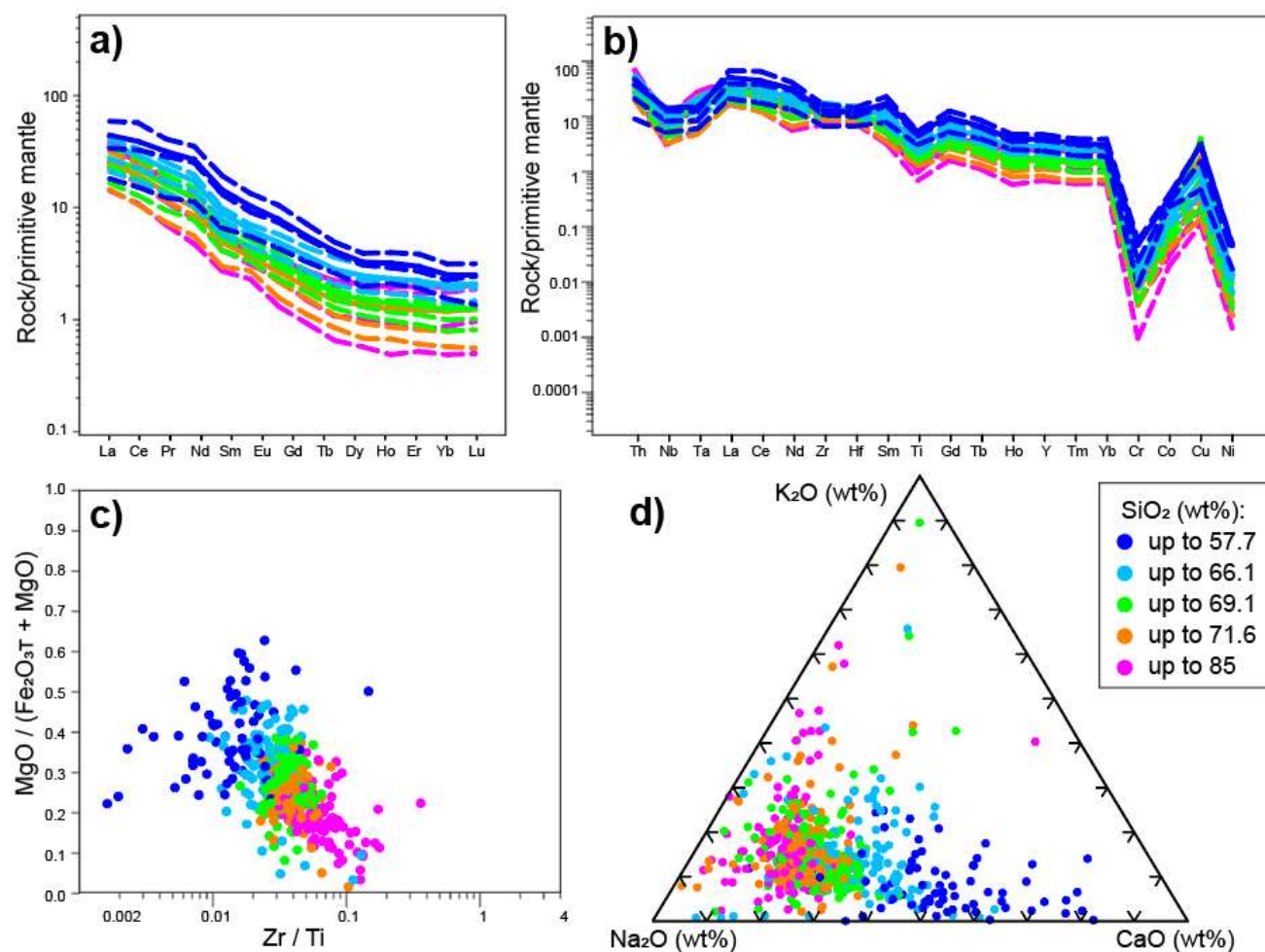
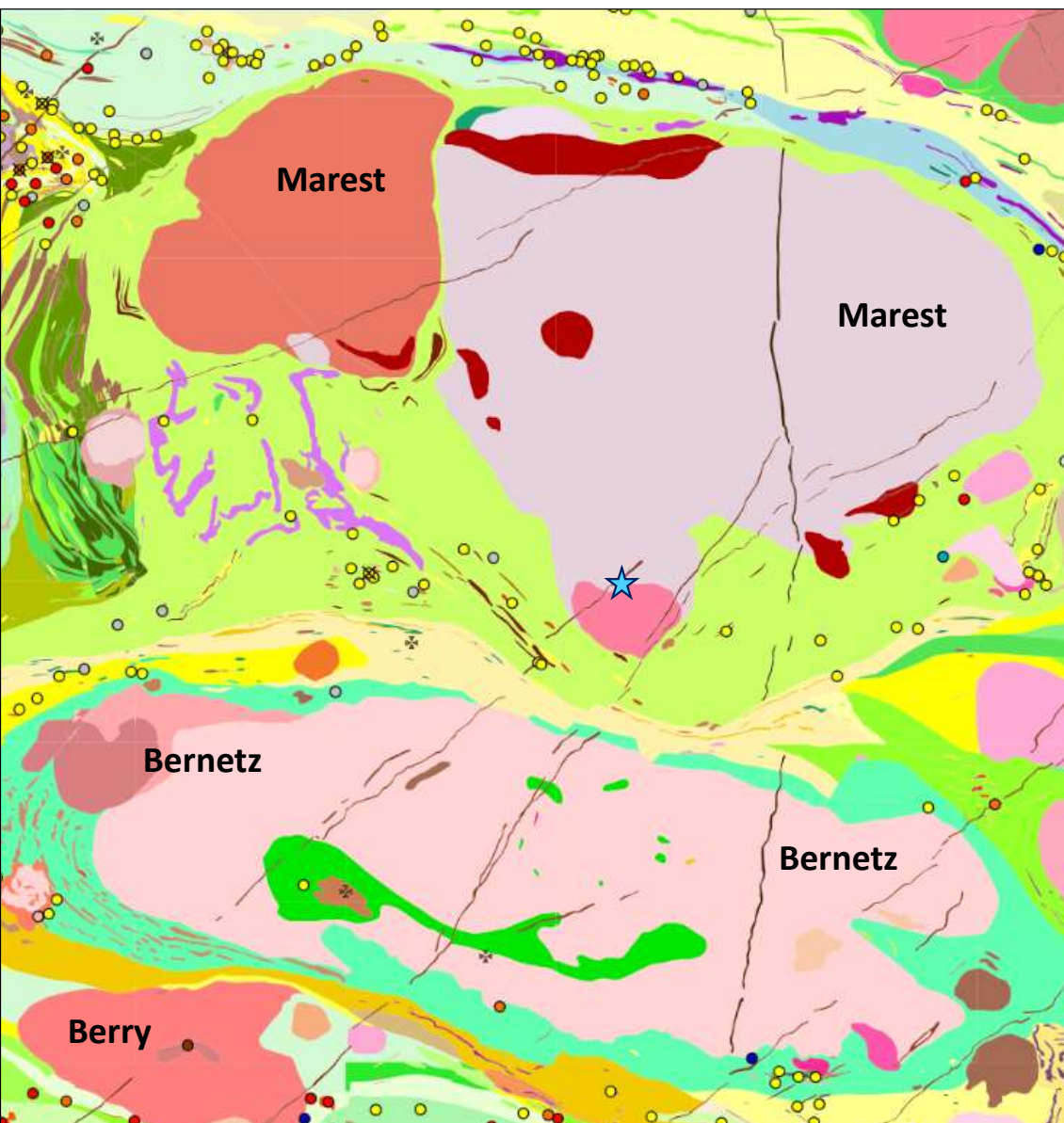


Figure 5 (see manuscript for details)



Marest intrusive suite

- Granodiorite and tonalite (Bt-Hnbl) – 68.7%
- Granodiorite (Bt) – 2.0%
- Granite or granodiorite – 23.9%
- Diorite \pm Qz, Plag phenocryst – 5.4%

Bernetz intrusion

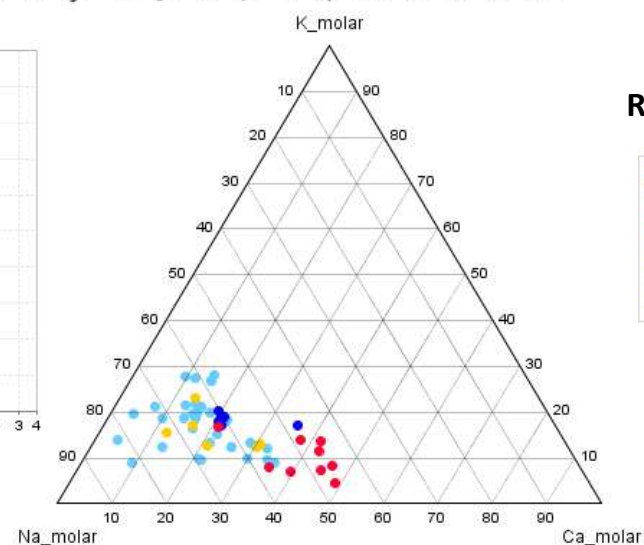
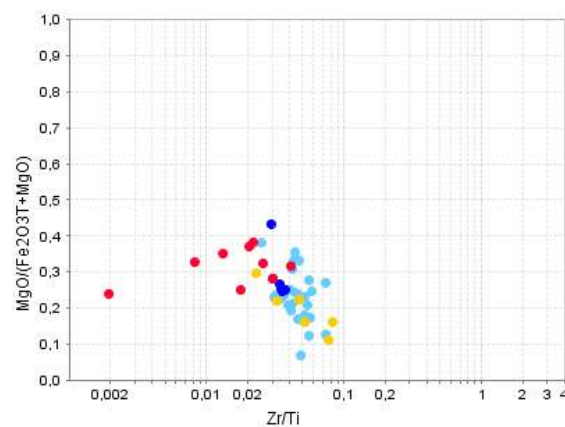
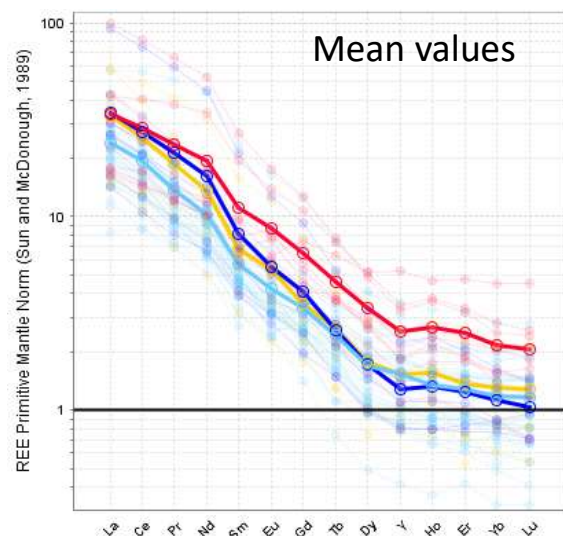
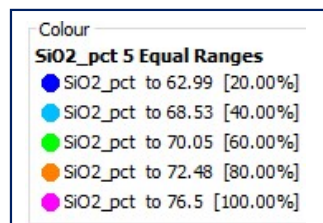
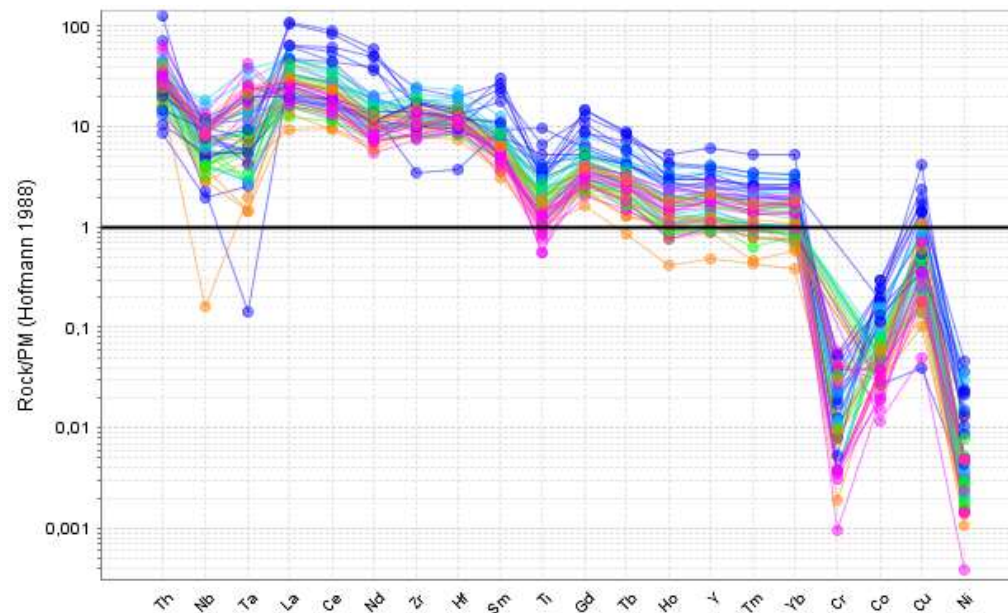
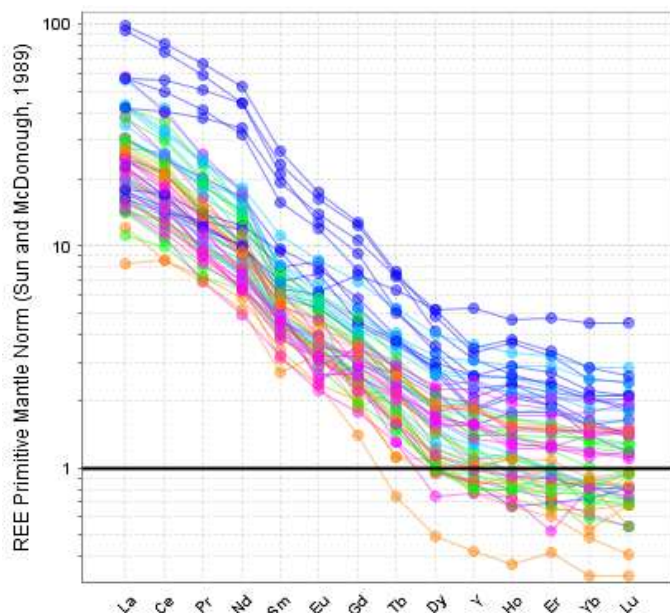
- Granodiorite and tonalite Bt (\pm gneiss) – 91.5%
- Granodiorite and granite with Qz-Fsp phenocrysts, Hnbl – 4.4%
- Granodiorite Bt-Hnbl (gneiss) – 3.1%
- Diorite \pm Qz, Hnbl – 1%

- Age U-Pb (granodiorite):
★ **2705 \pm 1 Ma** (*Rhéaume et al. 2010 – MB-2010-06*)

10 km



Marest and Bernetz intrusive suites



Rock names (field)



(unclassified rocks are not displayed)

Holmes pluton

- Tonalite (gneiss) – 0.8%
- Granodiorite, tonalite – 47.3%
- Tonalite – 48.4%
- Granodiorite – 1.5%
- Tonalite Hnbl-Bt – 1.9%

Wilson pluton

- Diorite Qz – 5.6%
- Diorite – 1.8%
- Diorite – 0.1%
- Tonalite Bt (gneiss) – 44.5%
- Granodiorite, tonalite – 48%

Stouart pluton

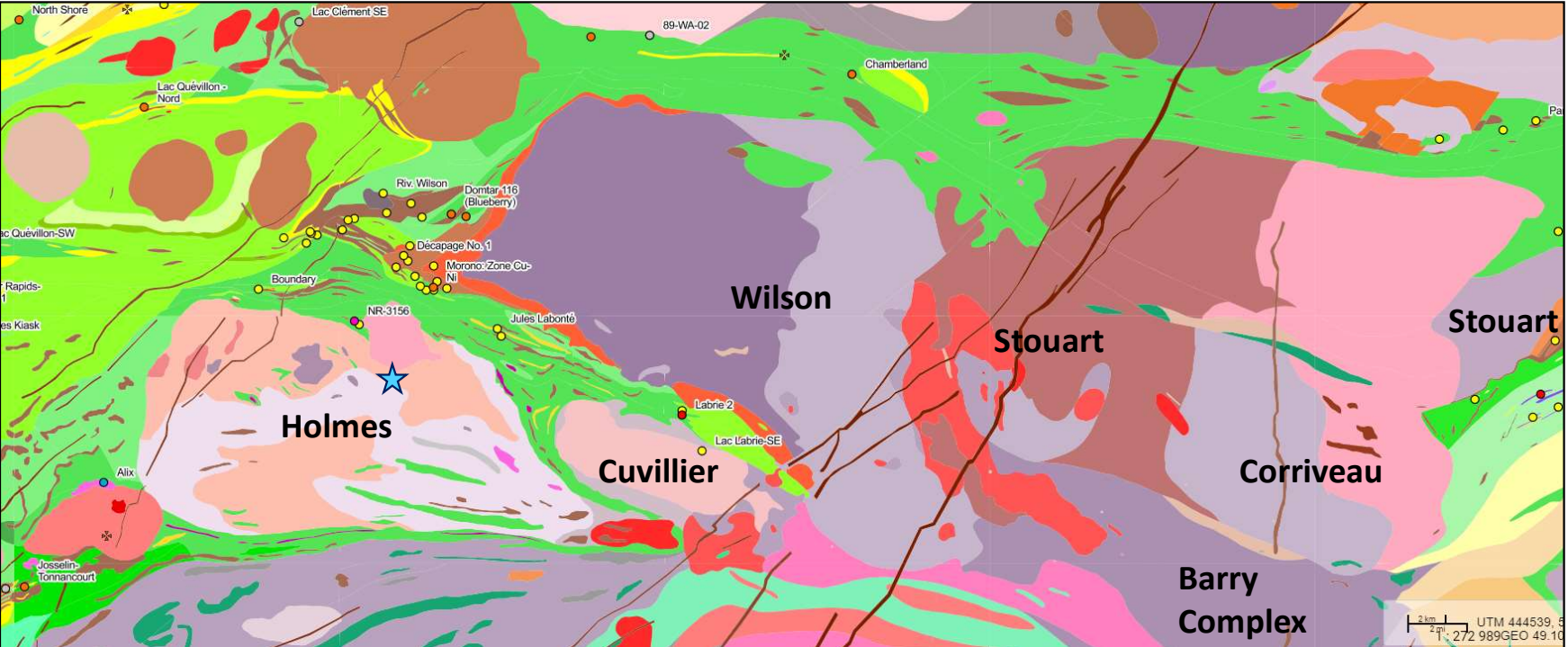
- Tonalite, diorite – 3.2%
- Tonalite – 12.1%
- Granodiorite Bt-Hnbl – 65.8%
- Granite Bt – 18.9%

Cuvillier pluton

- Granodiorite Bt – 27.4%
- Tonalite Bt-Hnbl – 72.6%

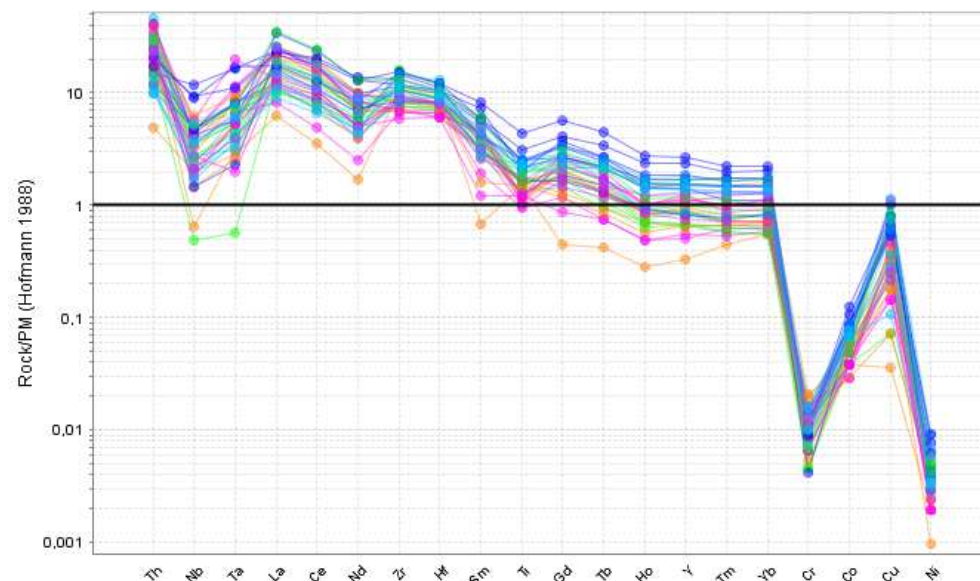
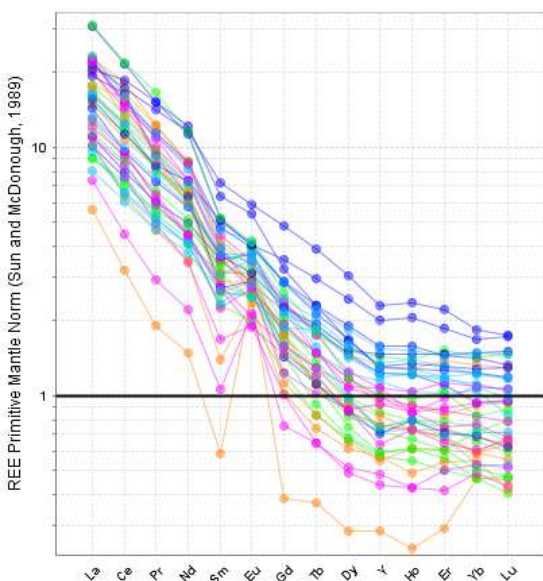
Corriveau pluton

- Tonalite Bt – 33.2%
- Granodiorite Bt-Hnbl – 66.8%



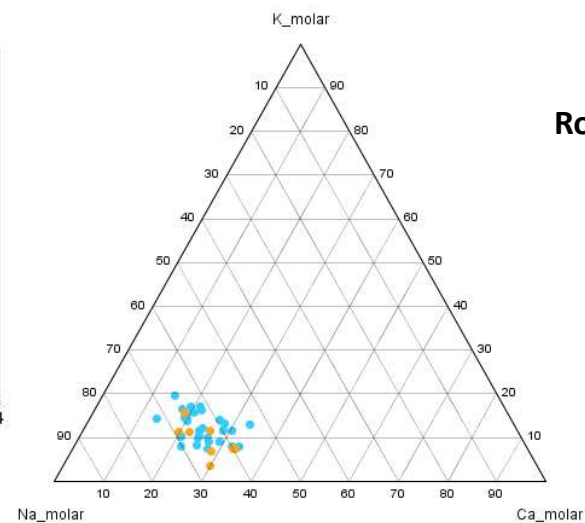
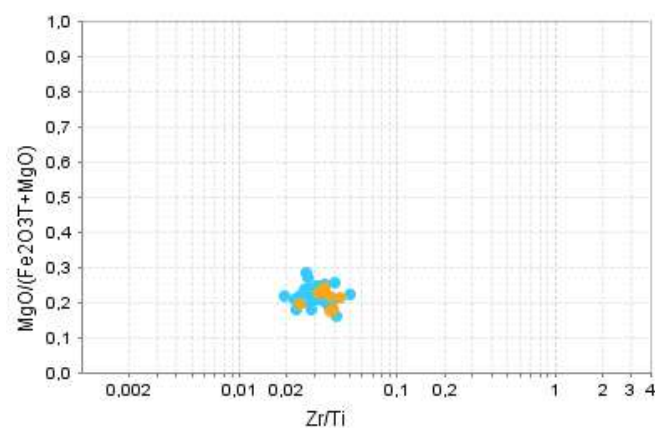
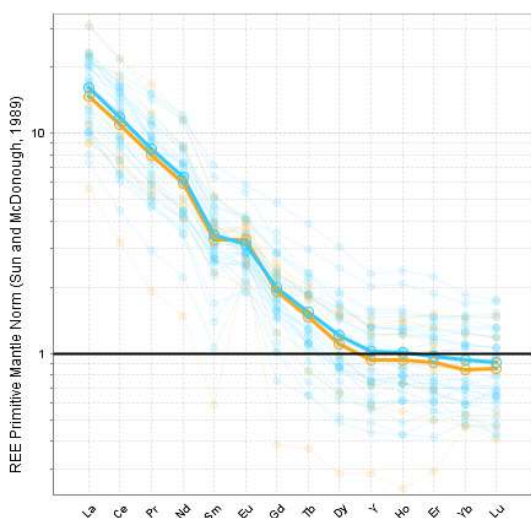
• Age U-Pb (granodiorite):
★ 2727 ± 7 Ma (Roffeis 2019)

Holmes pluton



SiO₂_pct 5 Equal Ranges

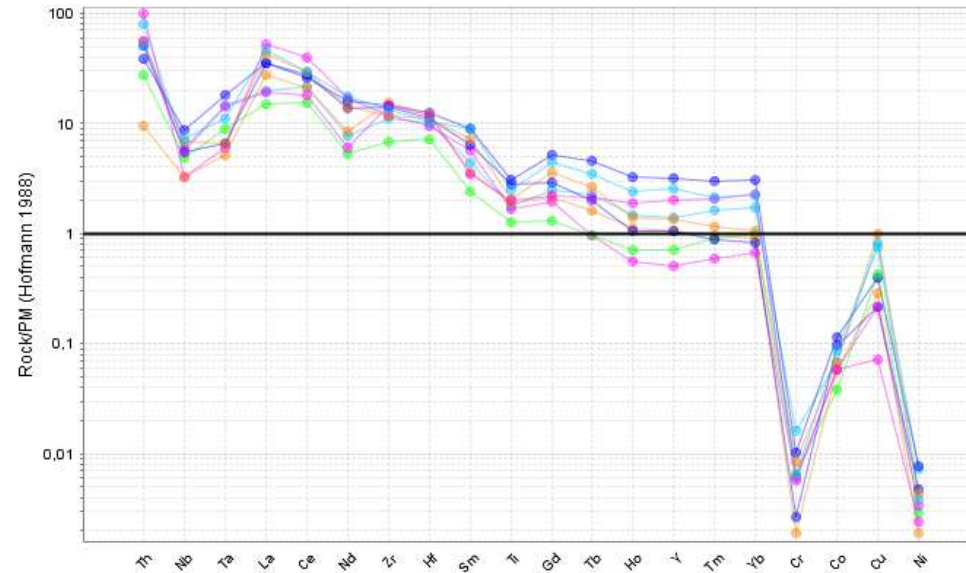
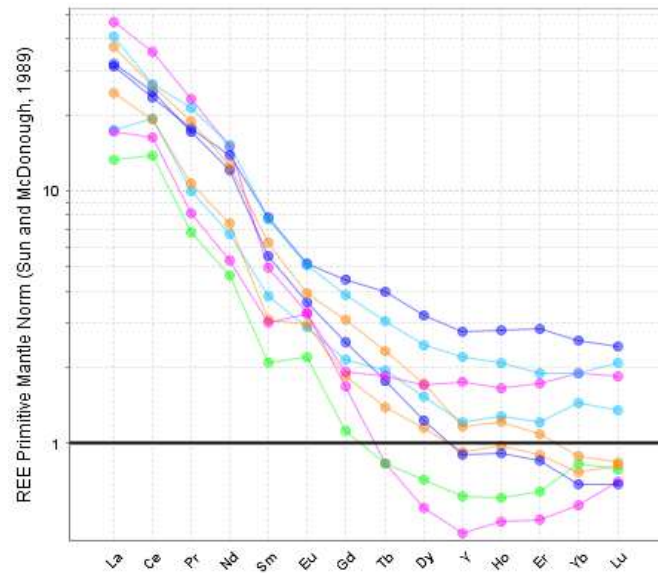
- SiO₂_pct to 66.97 [20.00%]
- SiO₂_pct to 68.92 [40.00%]
- SiO₂_pct to 70.53 [60.00%]
- SiO₂_pct to 71.34 [80.00%]
- SiO₂_pct to 73.6 [100.00%]



Rock names (field)

CODE_ROCH

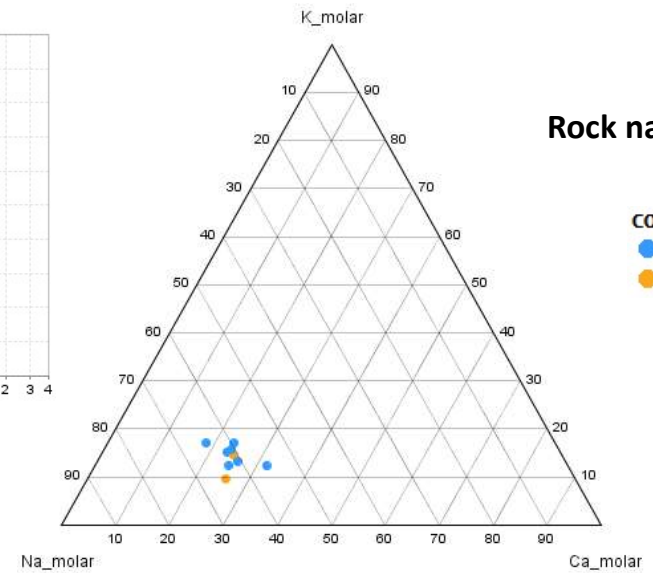
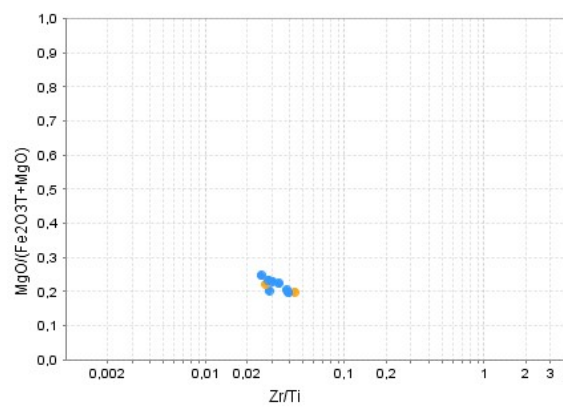
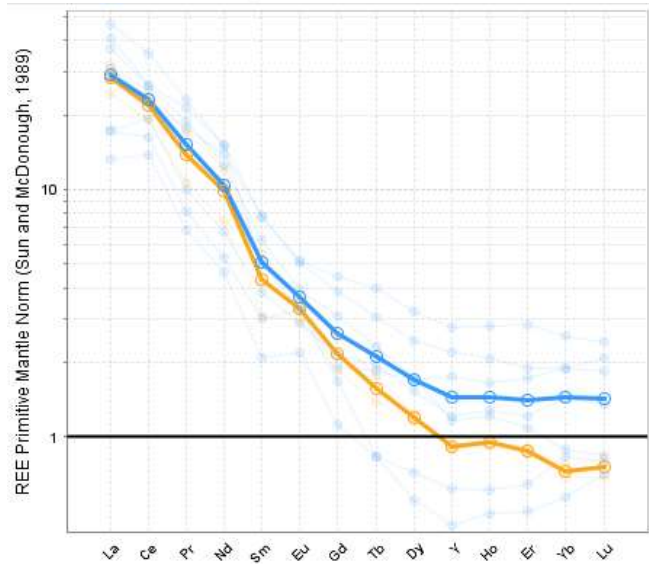
- granodiorite
- tonalite



Cuvillier pluton

SiO₂_pct 5 Equal Ranges

- SiO₂_pct to 66.65 [20.00%]
- SiO₂_pct to 69.34 [40.00%]
- SiO₂_pct to 69.53 [60.00%]
- SiO₂_pct to 70.42 [80.00%]
- SiO₂_pct to 71.06 [100.00%]



Rock names (field)

CODE_ROCH

- granodiorite
- tonalite

Waswanipi Riv. pluton

Granodiorite

Lapparent intrusive suite

Tonalite (gneiss)

Rachel pluton

Tonalite Bt

Eau Jaune Complex

Diorite, tonalite – 24%
Tonalite, diorite – 67.2%
Trondhjemite – 8.8%

Houghton pluton

Monzodiorite – 46.3%
Tonalite – 49.2%
Diorite, tonalite – 3.6%
Hornblendite – 0.9%

Ouest granodiorite

Granodiorite

Presqu'île pluton

Tonalite, granite

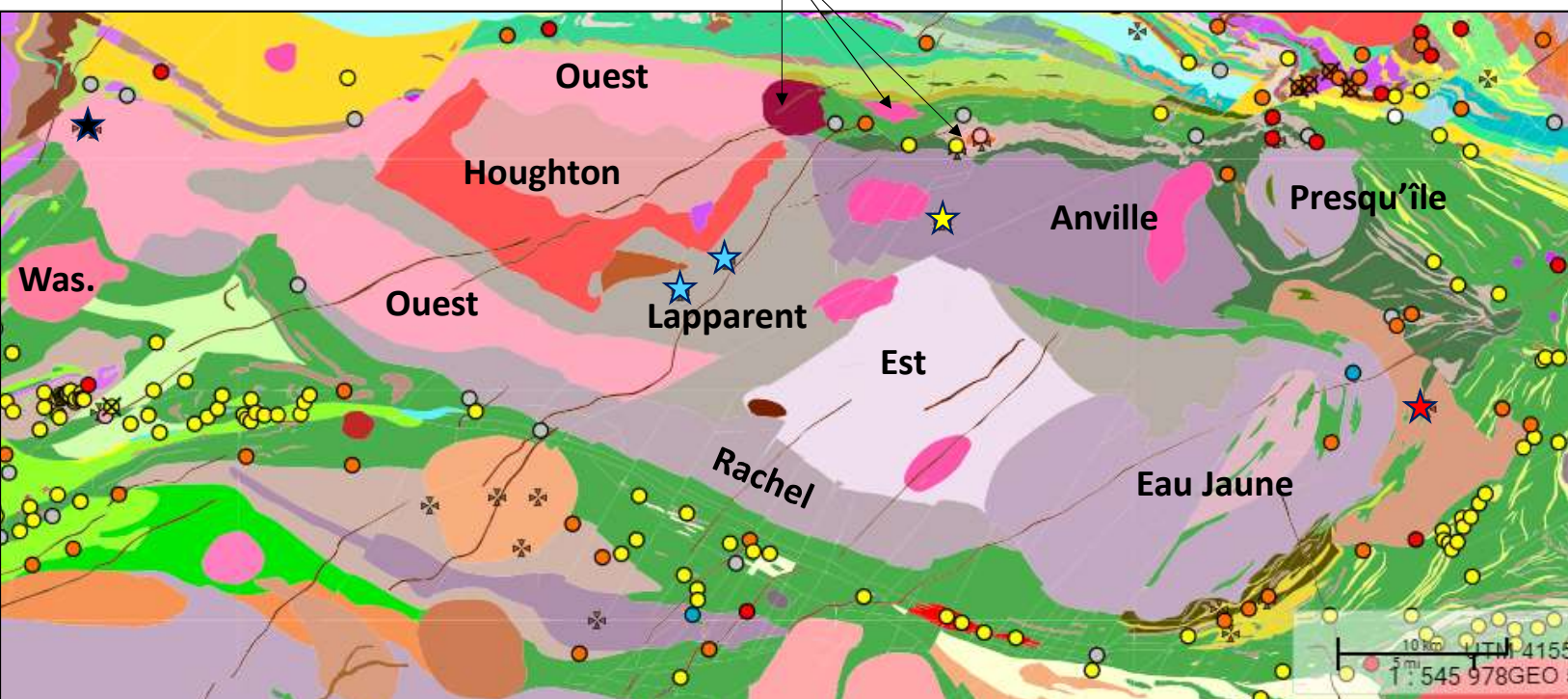
Anville pluton

Tonalite – 86.6%
Granodiorite – 13.4%

Est tonalite

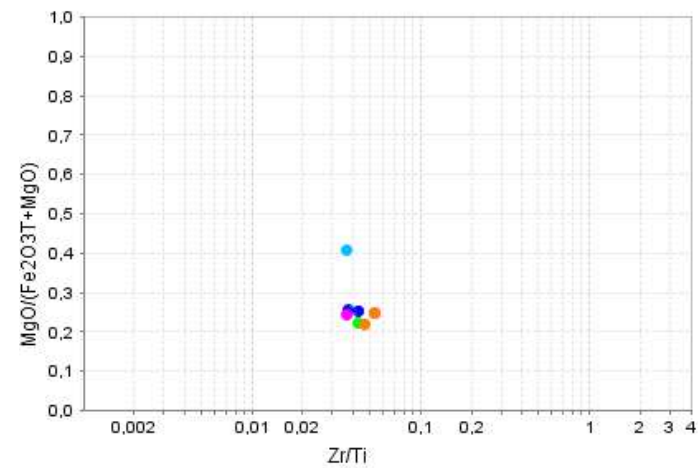
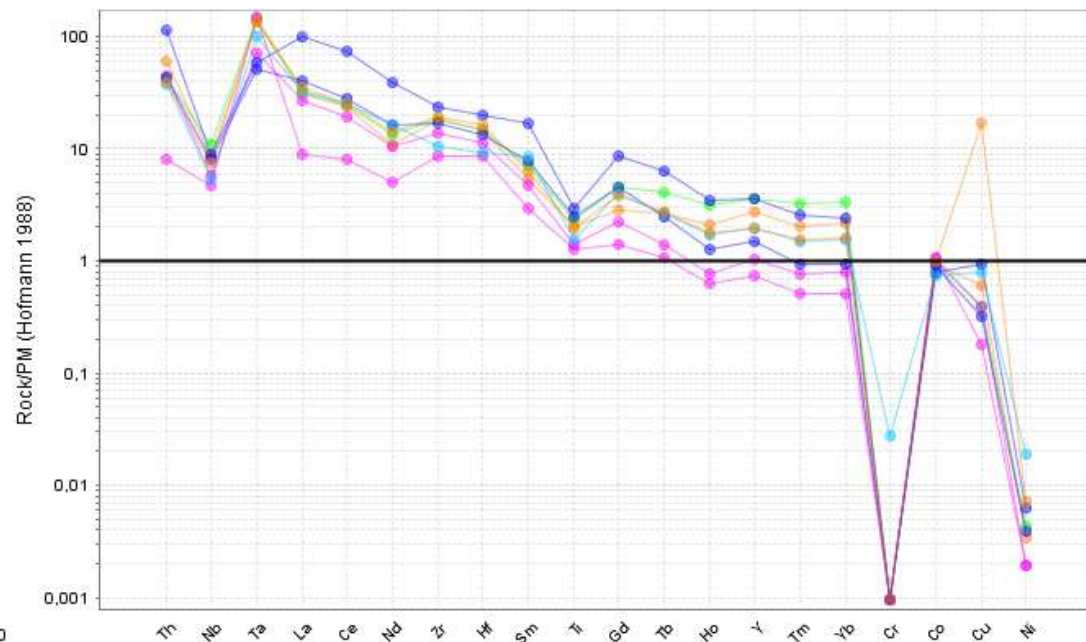
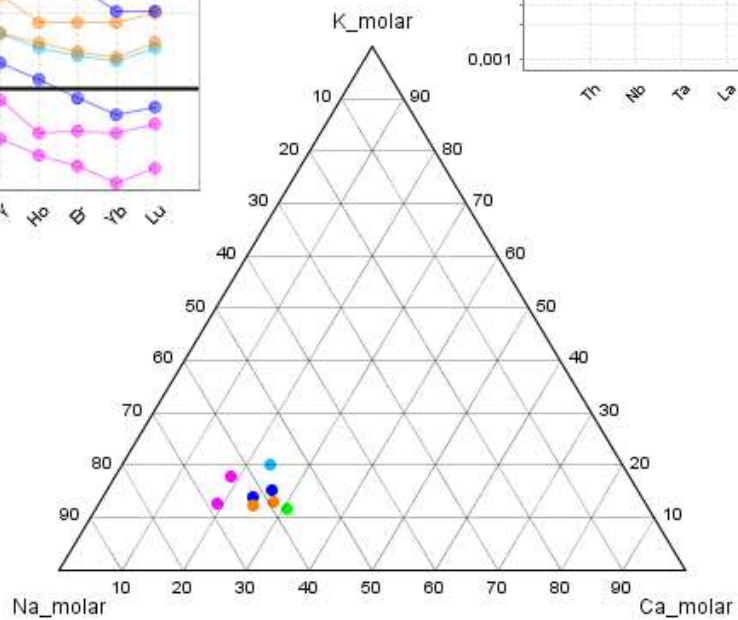
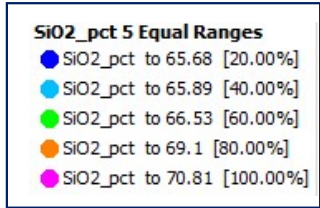
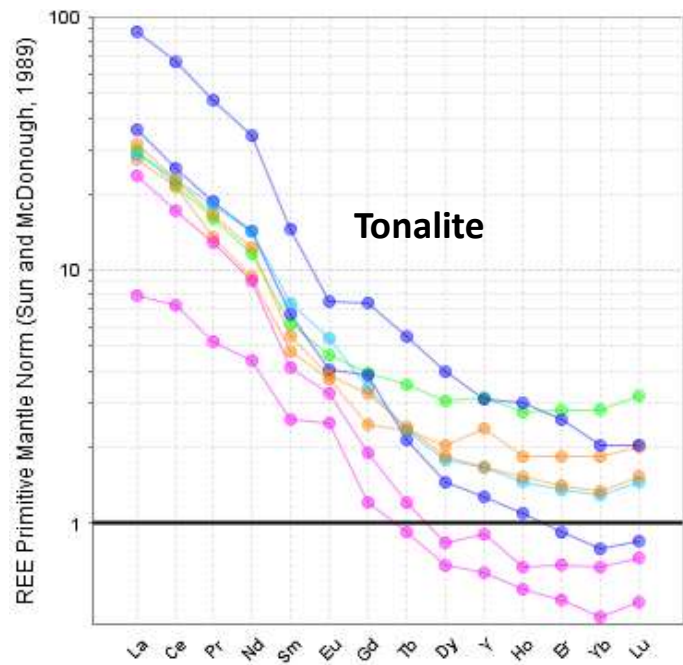
Tonalite Bt – 95.3%
Granodiorite – 4.7%

Syenite, carbonatite



- Age U-Pb (tonalite):
★ $2712 \pm 1 \text{ Ma}$, $2713.4 \pm 2.5 \text{ Ma}$ (Mortensen 1993)
- Age U-Pb (granodiorite): ★ $2714.8 \pm 0.6 \text{ Ma}$ (Augland et al. 2016)
- Age U-Pb (tonalite): ★ $2700 \pm 2 \text{ Ma}$ (Mortensen 1993)
- Age U-Pb (diorite): ★ $2718.6 \pm 5.5 \text{ Ma}$ (David 2018)

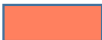
East tonalite



Hazeur pluton

 Tonalite

Muscocho pluton

 Granodiorite Hnbl


Verneuil pluton

 Tonalite, granodiorite

La Dauversière pluton

 Tonalite, granodiorite

Boisvert pluton

 Tonalite, granodiorite

Némenjiche pluton

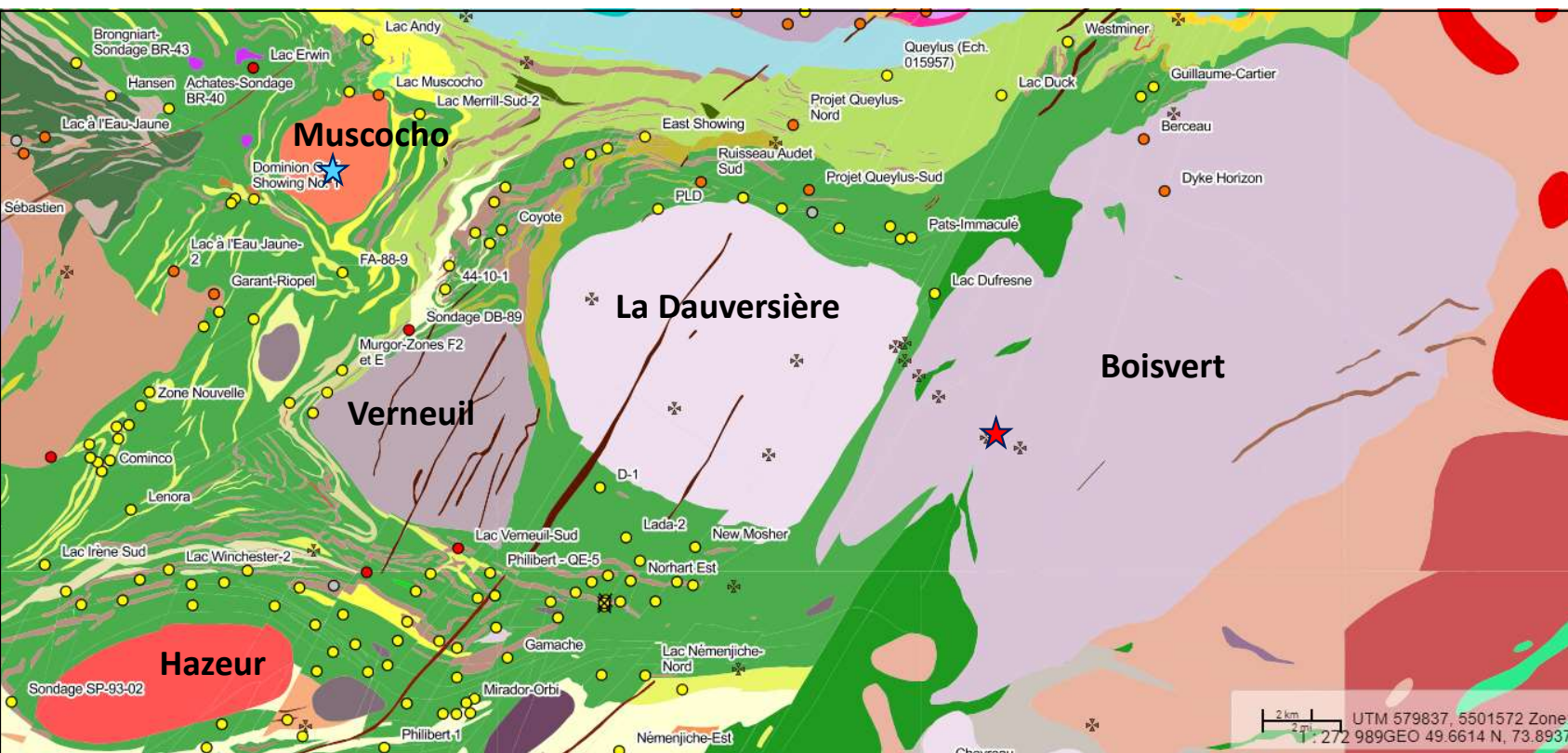
 Tonalite

Unnamed

 Tonalite

Chico stock

 Tonalite

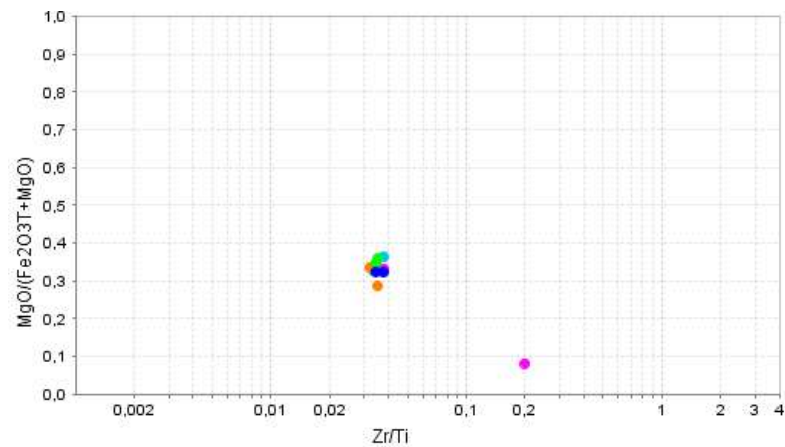
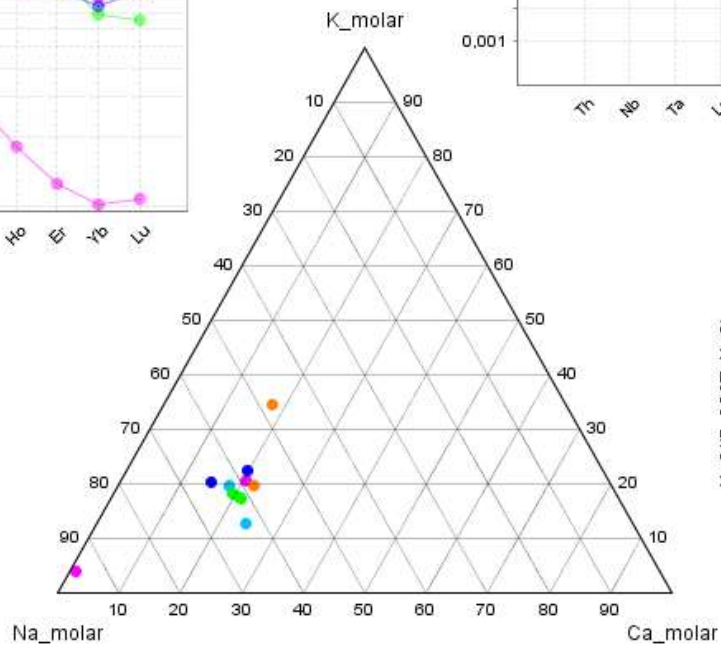
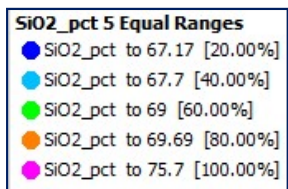
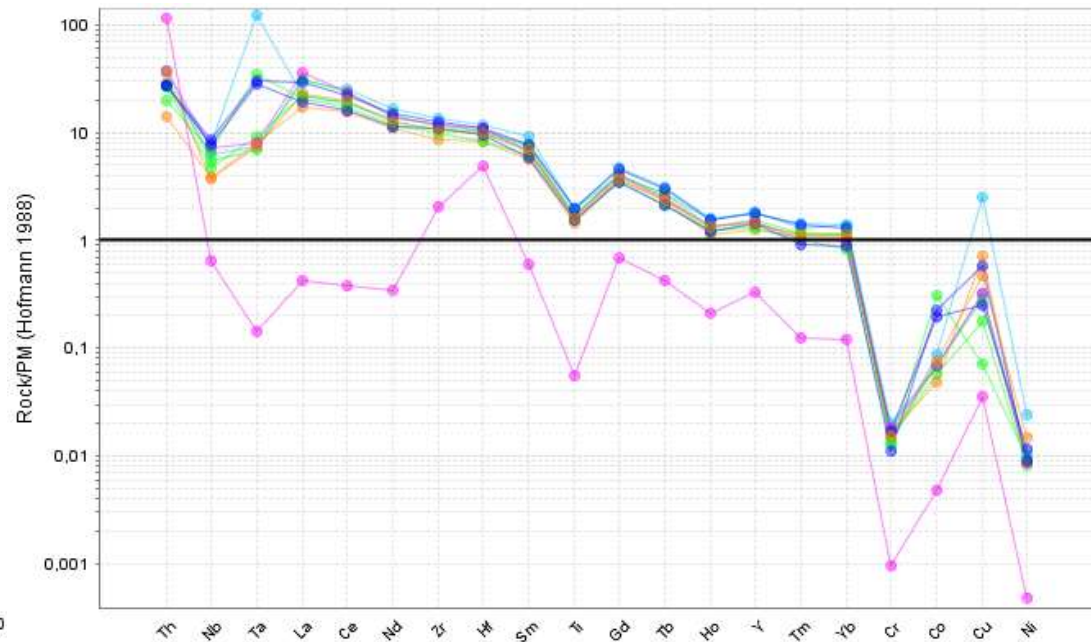
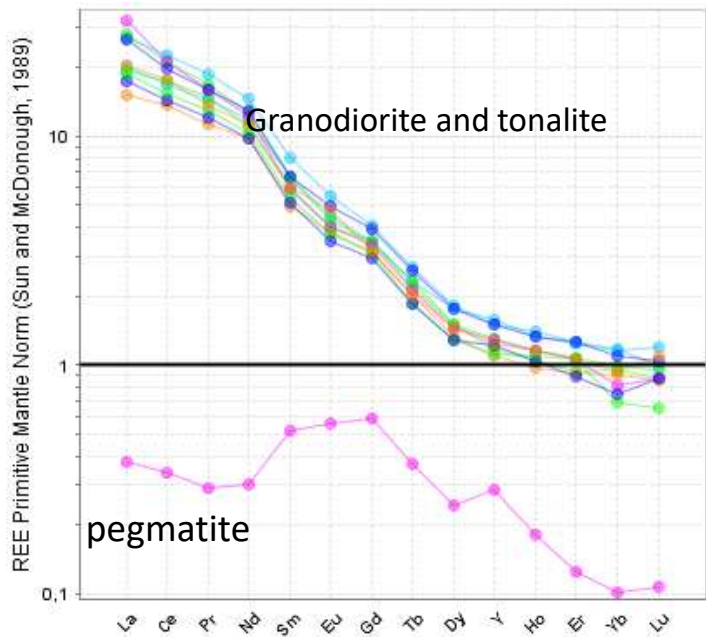


- Age U-Pb (granodiorite):
2701 \pm 2, -1 Ma
(Mortensen 1993)

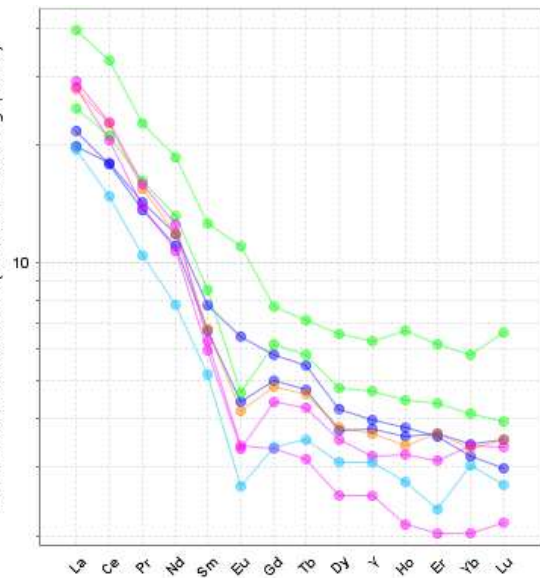


- Age U-Pb:
2697 \pm 3 Ma
(Davis et al. 2005)

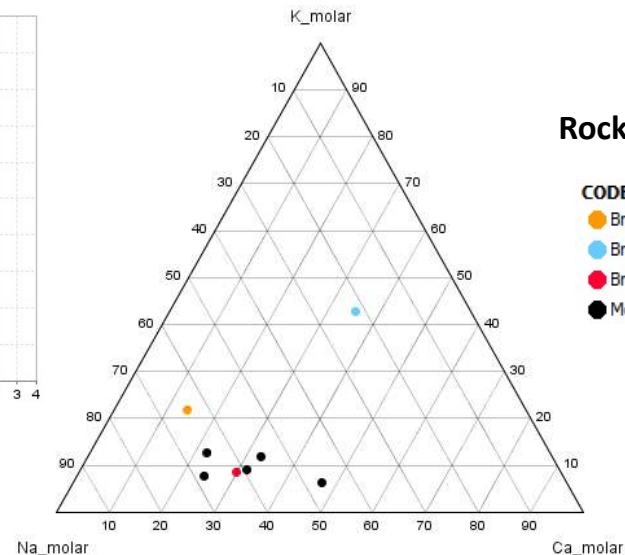
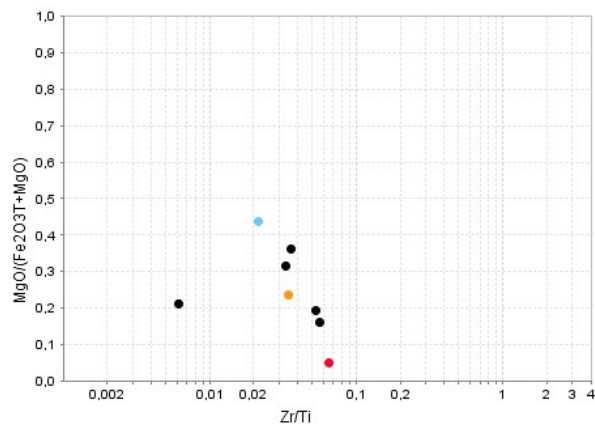
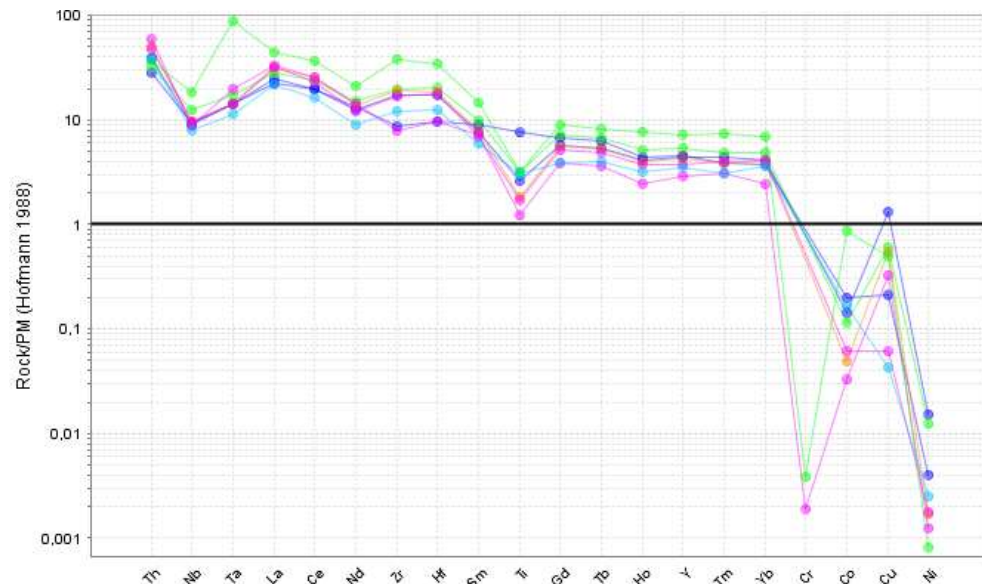
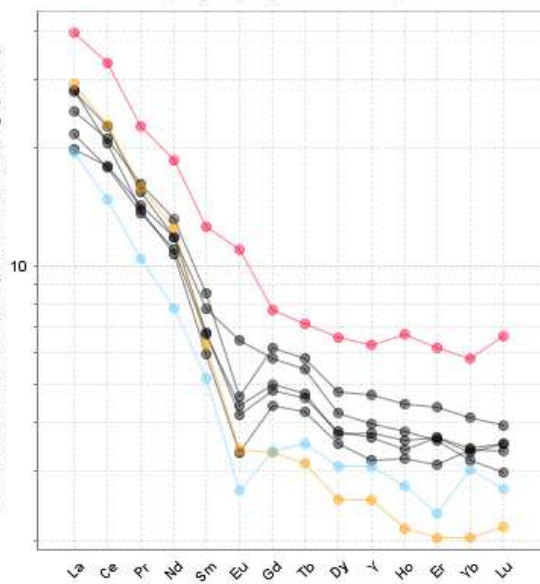
Verneuil pluton



REE Primitive Mantle Norm (Sun and McDonough, 1989)



REE Primitive Mantle Norm (Sun and McDonough, 1989)



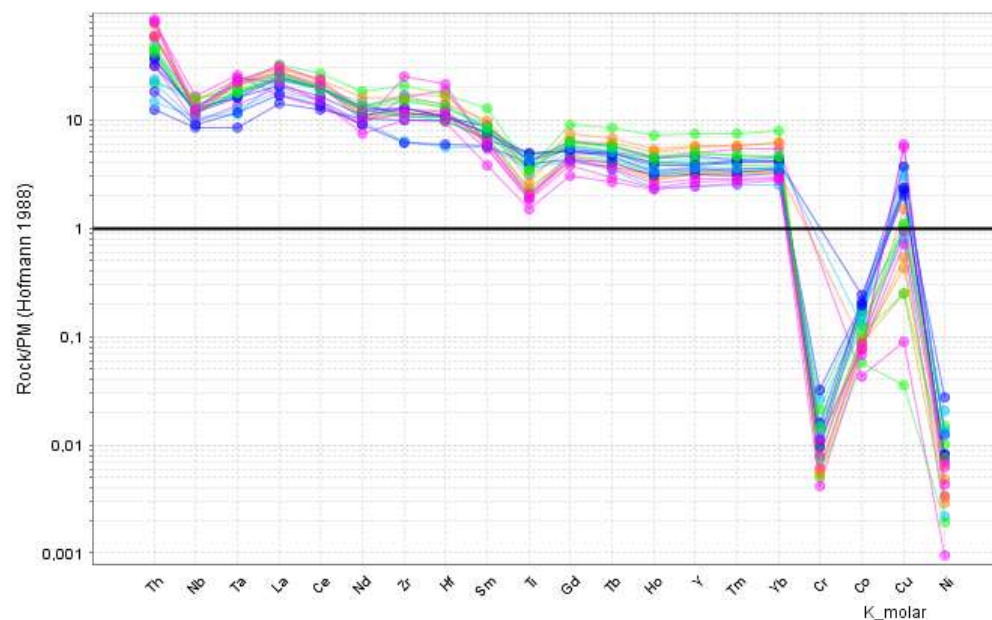
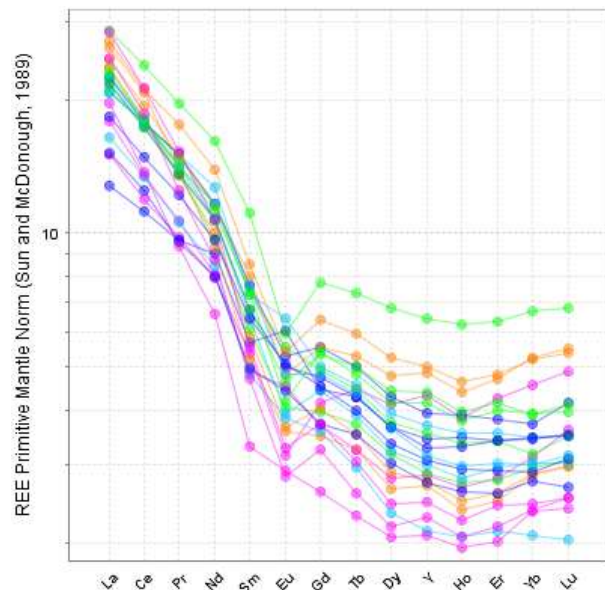
McIvor and Brouillan pluton

SiO₂_pct 5 Equal Ranges

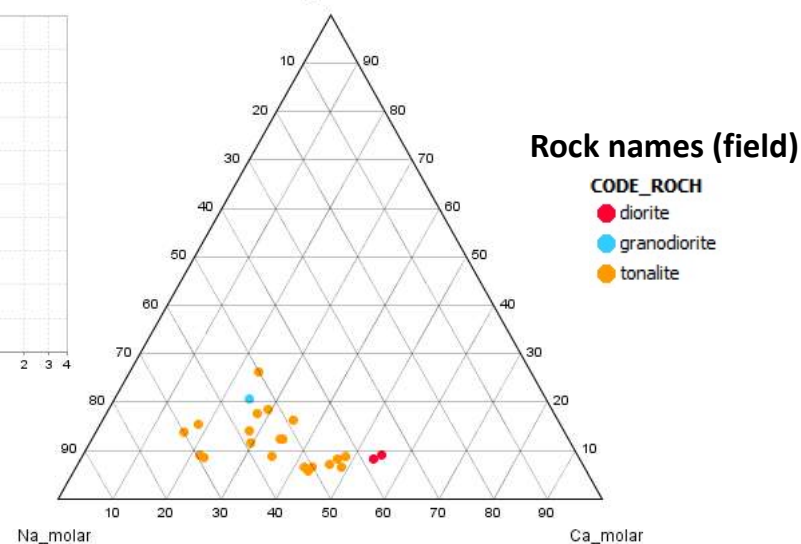
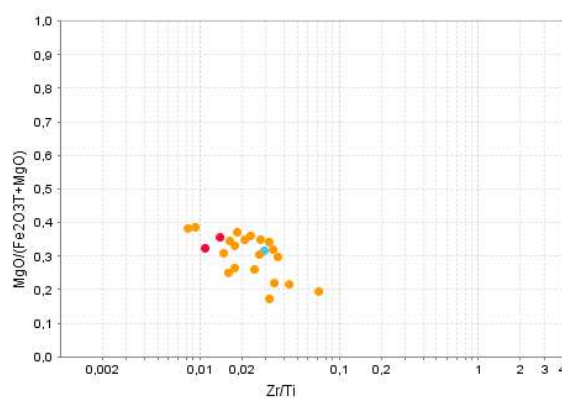
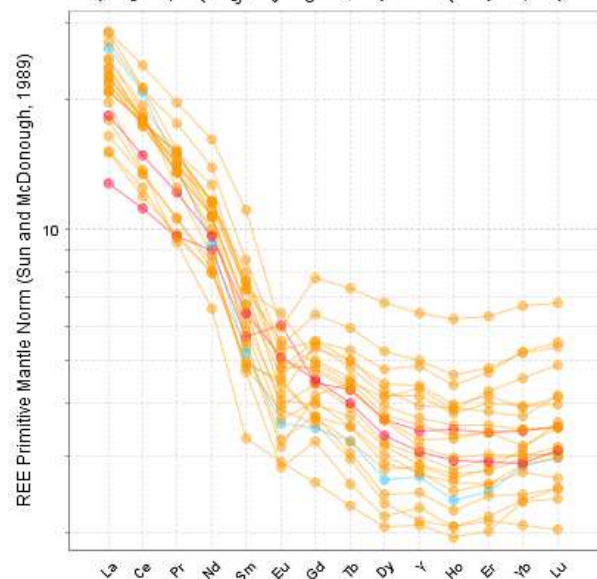
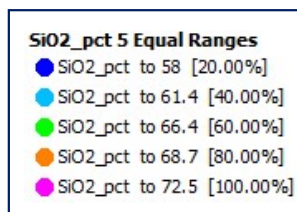
- SiO₂_pct to 65.81 [20.00%]
- SiO₂_pct to 68.48 [40.00%]
- SiO₂_pct to 70.8 [60.00%]
- SiO₂_pct to 72.44 [80.00%]
- SiO₂_pct to 73.24 [100.00%]

Rock names (field)

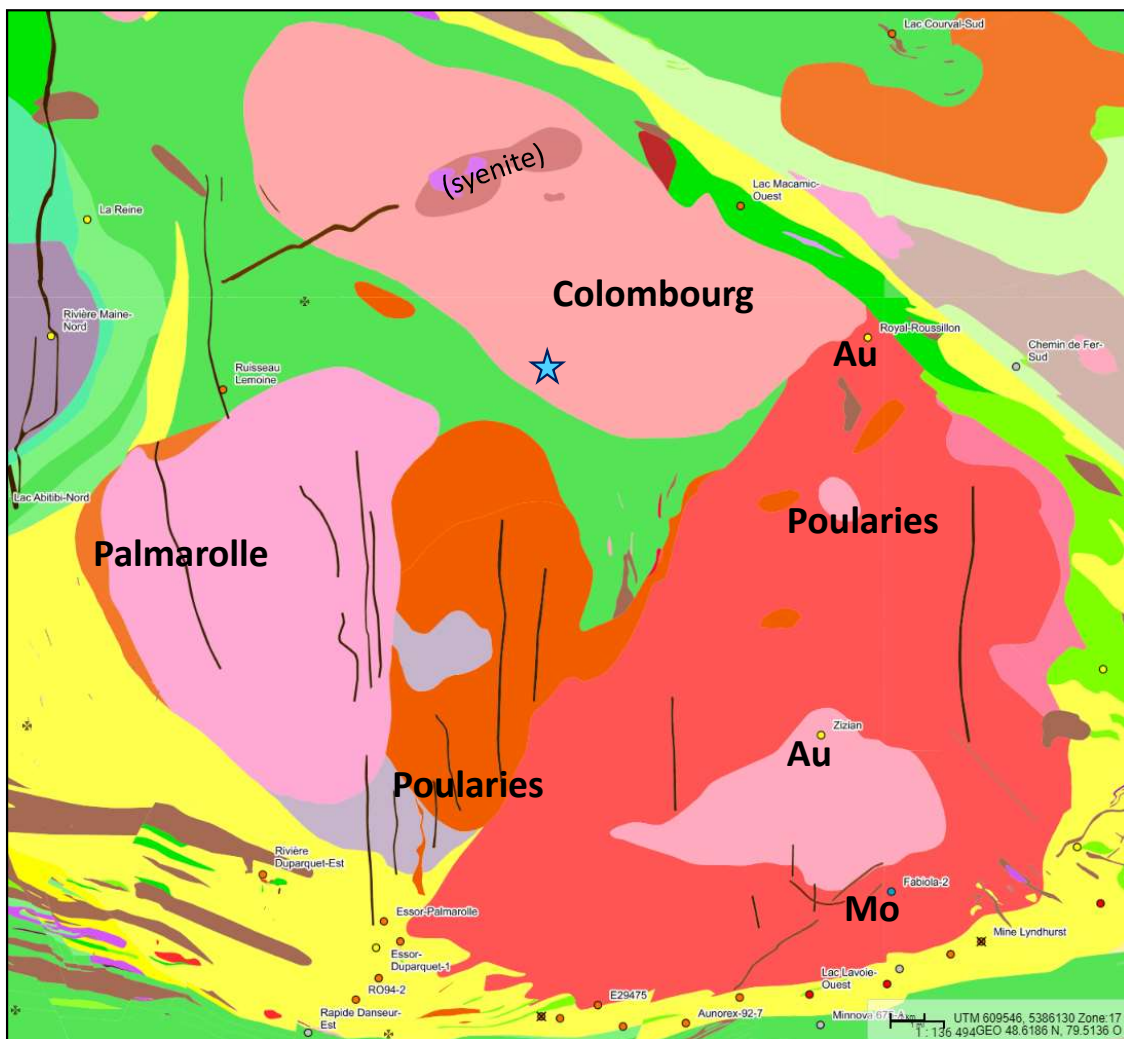
- CODE_ROCH
- Brouillan (granodiorite)
 - Brouillan (intermediate rock)
 - Brouillan (tonalite)
 - McIvor (tonalite)



Dufault pluton



Colombourg, Palmarolle and Poularies plutons



Colombourg batholith

Granite and granodiorite Bt-Hnbl – 100%

Palmarolle pluton

Granodiorite Bt, Plag porphyry – 94.9%

Diorite – 5.1%

Poularies pluton

Tonalite and granite Bt-Hnbl – 65.8%

Granodiorite – 9.5%

Diorite \pm trondhjemite injections – 17.6%

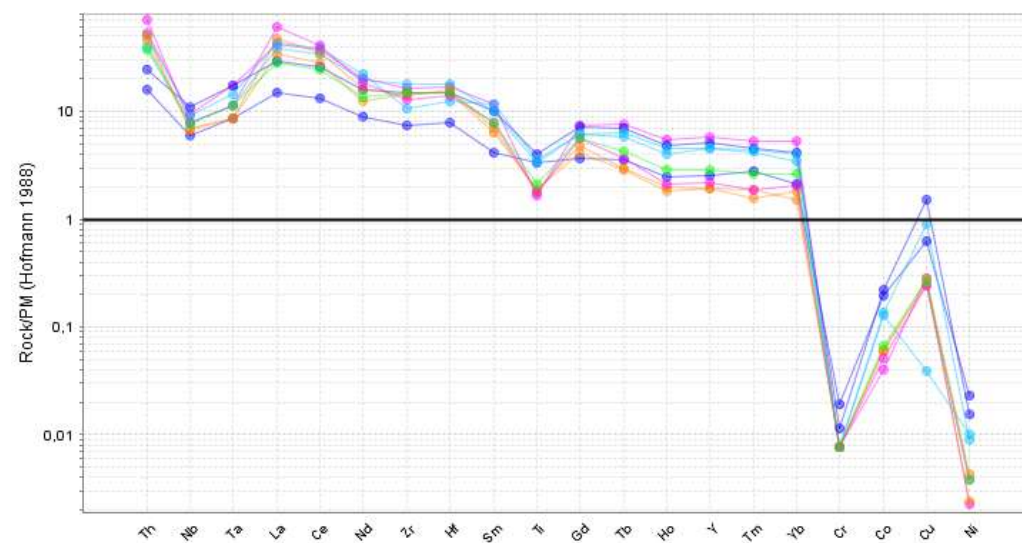
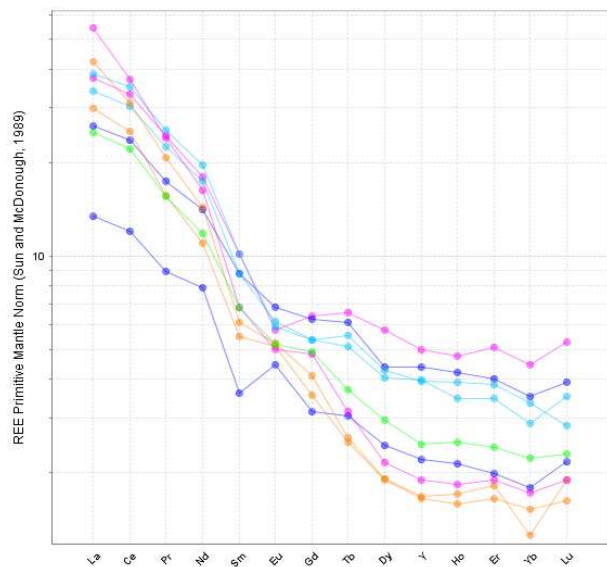
Tonalite Bt-Hnbl – 4.1%

Migmatite? – 3.0%

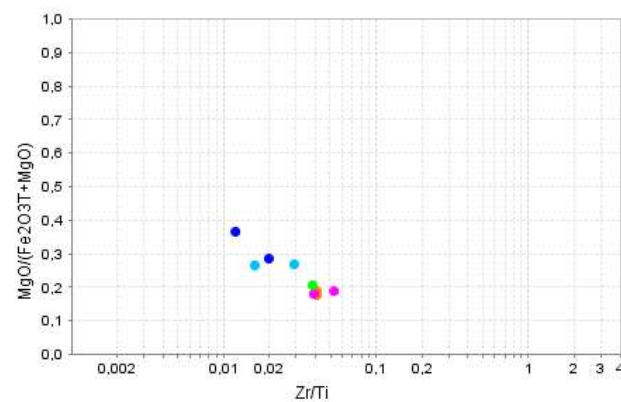
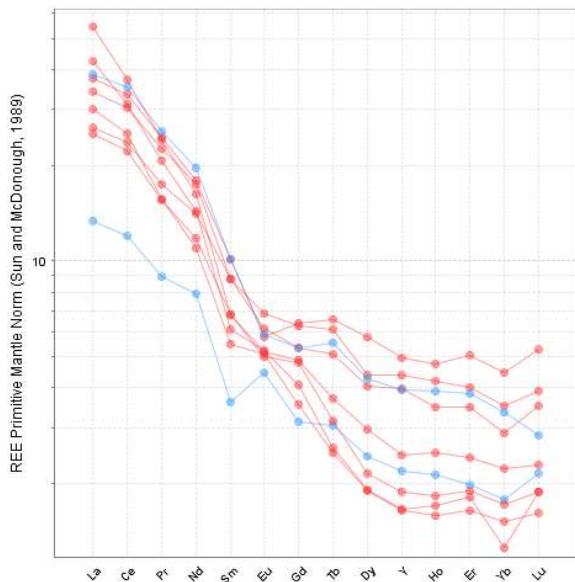
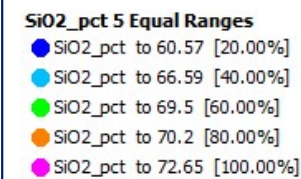
- Age U-Pb (granodiorite): 2696 \pm 3, -2 Ma (Mortensen 1993)



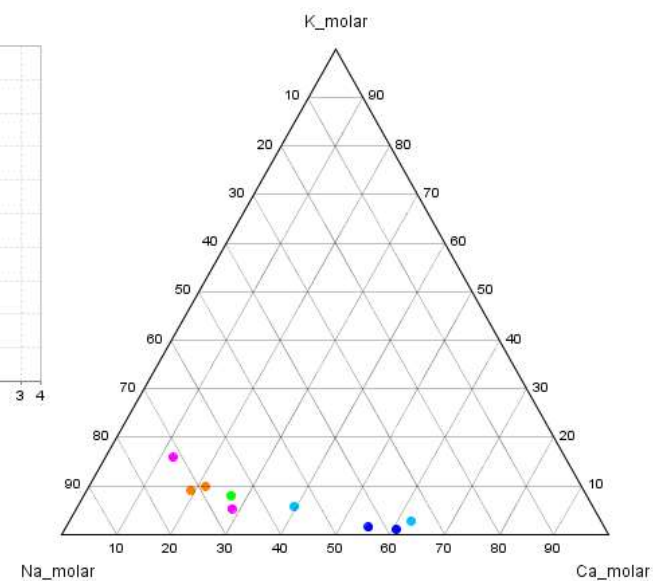
Au Au, Cu, Mo showings – magmatic-hydrothermal systems (possibly)
Mo



Poularies pluton

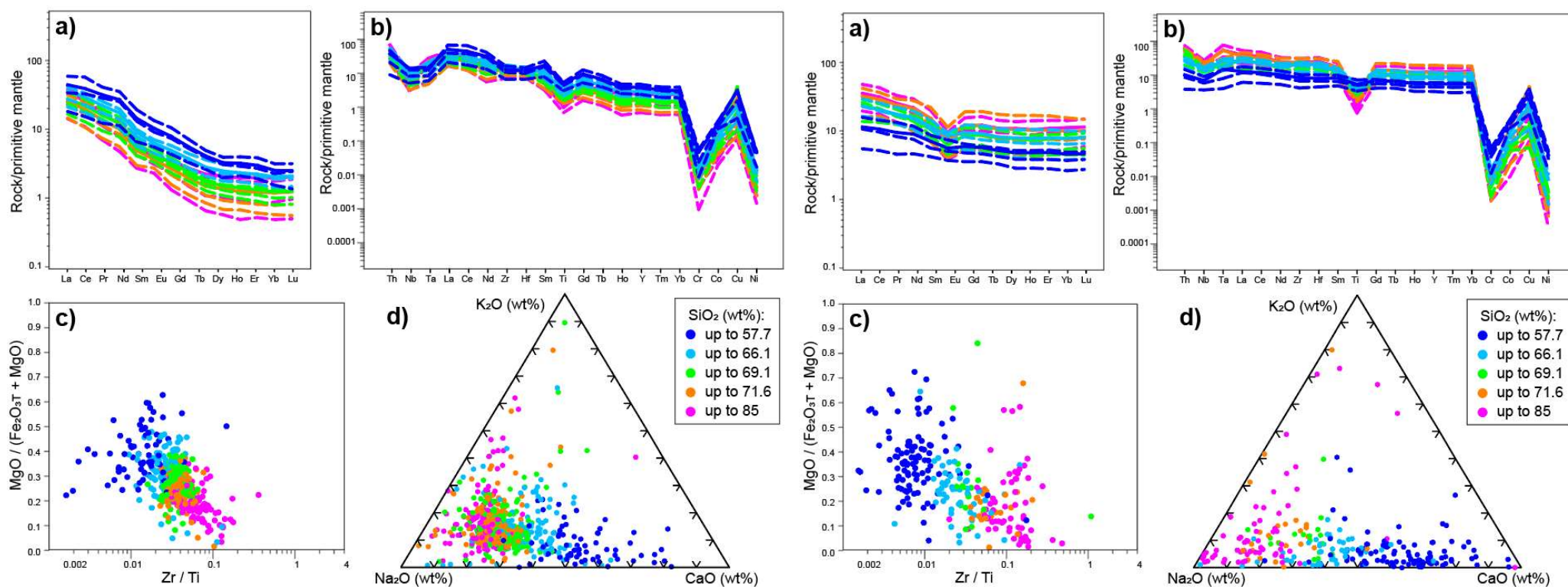


■ Tonalite
■ Diorite



Intermediate and felsic intrusions made of $(La/Yb)_N > 6$ and $(La/Yb)_N < 6$ rocks

Figures 5 and 6 (see manuscript for details)



Josselin batholith and Montgay batholith

Josselin batholith

- Tonalite, diorite, granodiorite Bt-Amp (gneiss) – 12.5%
- Tonalite, granodiorite Bt-Hnbl (gneiss) – 87.0%
- Diorite \pm Qz – 0.5%

Montgay batholith

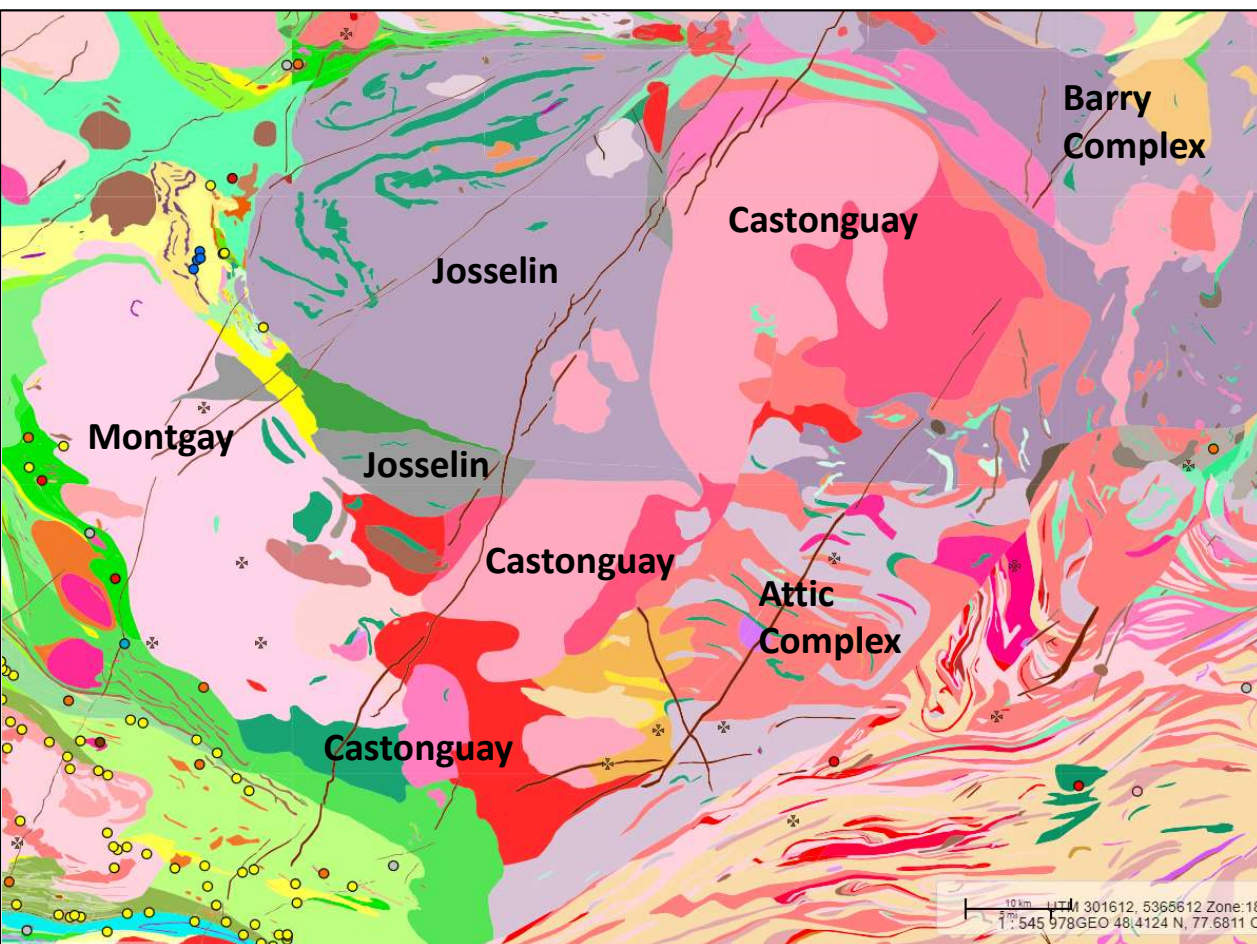
- Granodiorite, tonalite, granite, monzonite, diorite – 97.9%
- Granite – 2.1%

Castonguay suite

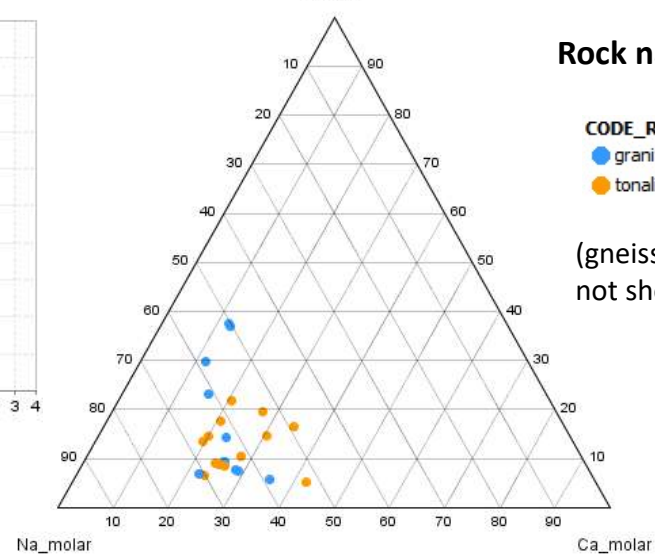
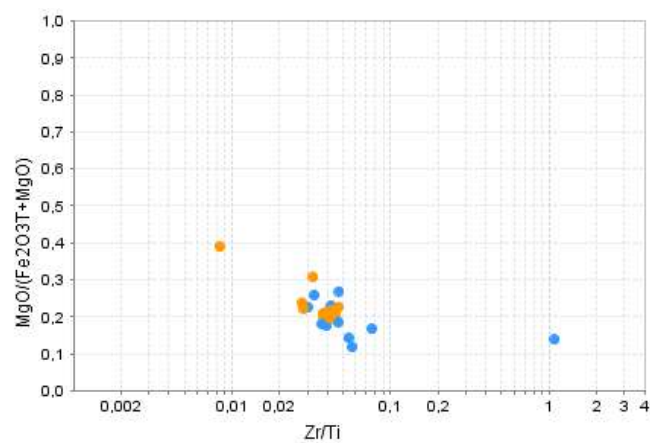
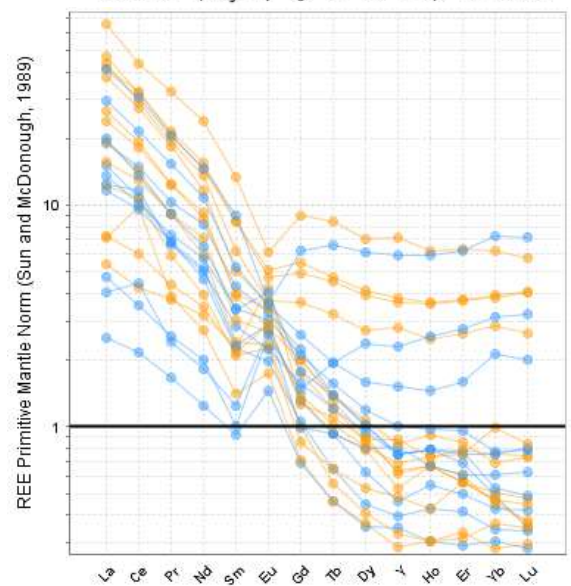
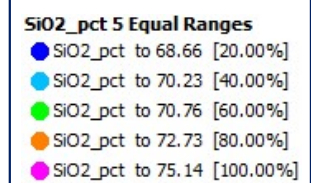
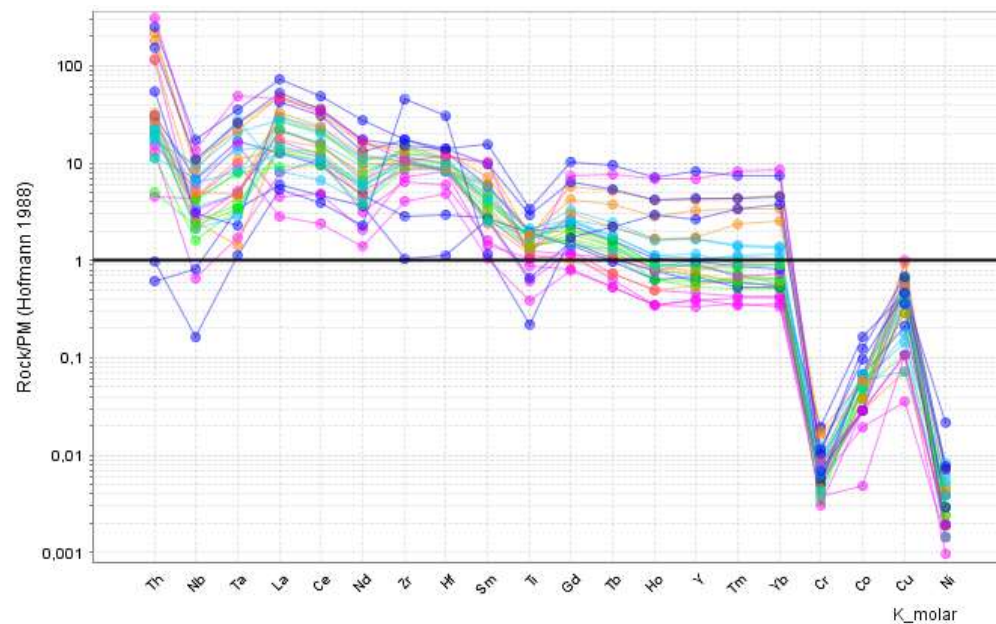
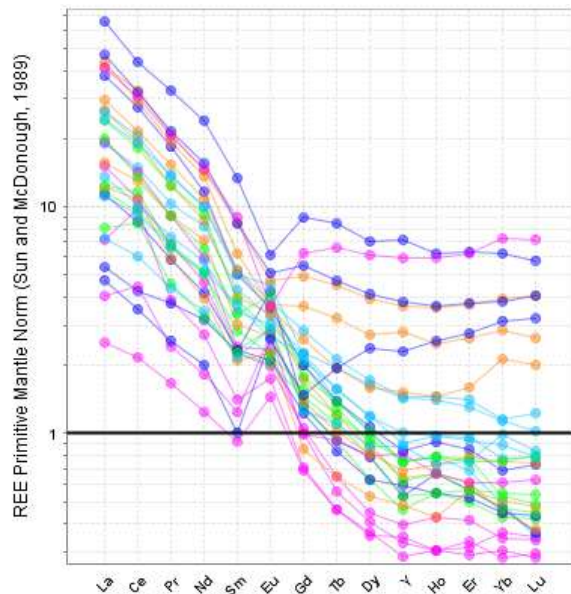
- Granite Bt-Ab
- Granite gneiss
- Granite

Attic Complex

- Tonalite
- Granodiorite, granite, tonalite
- Gneiss Qz-Fsp-Bt
- Gneiss Bt-Amp
- Amphibolite
- Granite gneiss Amph
- paragneiss
- paragneiss



Josselin batholith



Rock names (field)






CODE_ROCH

- granite granodiorite
- tonalite



(gneiss – unclassified
not shown)

Hébert pluton and other intrusions

Hébert pluton

		Diorite, tonalite – 17.2%
		Tonalite (gneiss) – 82.1%
		Pegmatite – 0.7%



Wetetnagami pluton

	Gabbronorite-gabbro – 82%
	Diorite? Gabbro? – 18%

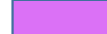

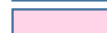
Mountain pluton

	Tonalite Bt-Hnbl – 22.5%
	Granodiorite Bt – 77.5%

Father pluton

	Tonalite Hnbl-Bt – 23.4%
	Granodiorite – 76.6%


Espinay pluton

	Pyroxenite – 2.7%
	Diorite – 3.4%
	Granodiorite Mag-Hnbl – 93.9%

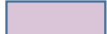
Aigle pluton

	Monzodiorite
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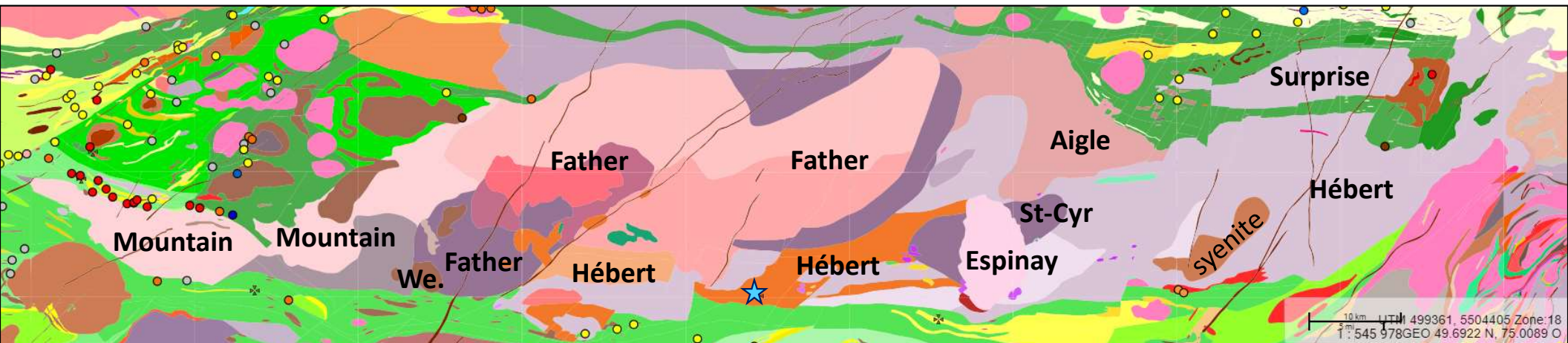
Saint-Cyr pluton

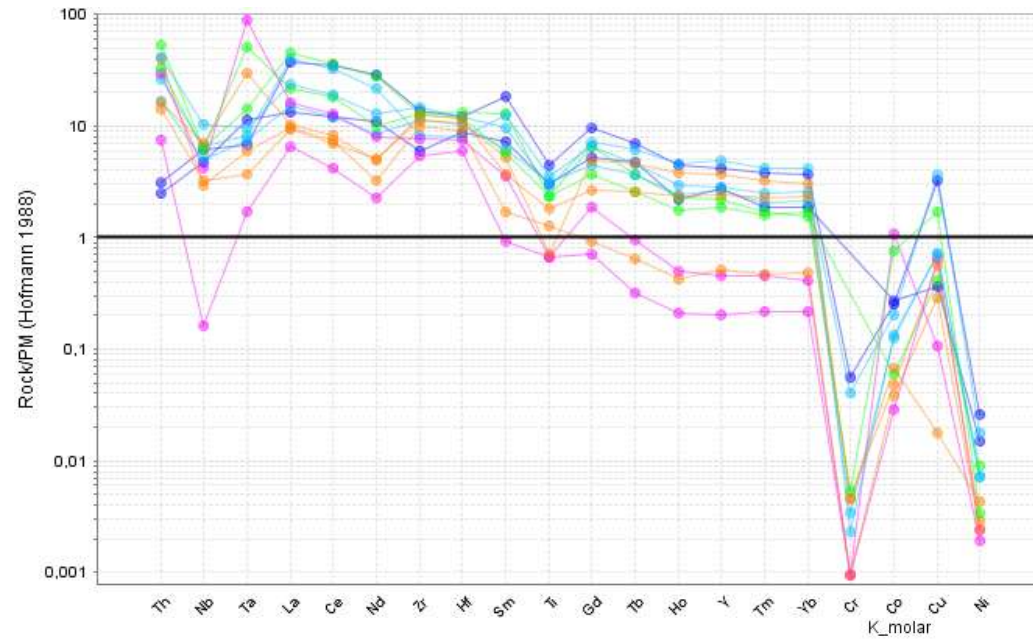
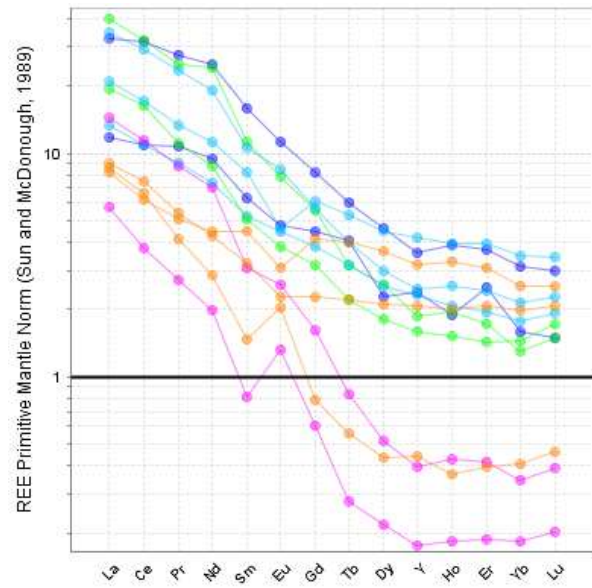
	Tonalite Hnbl-Bt (gneiss)
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Surprise pluton

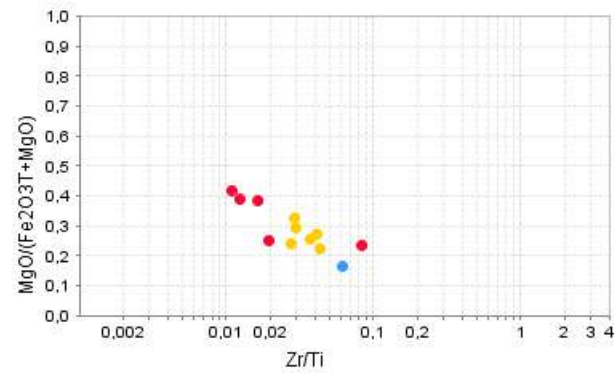
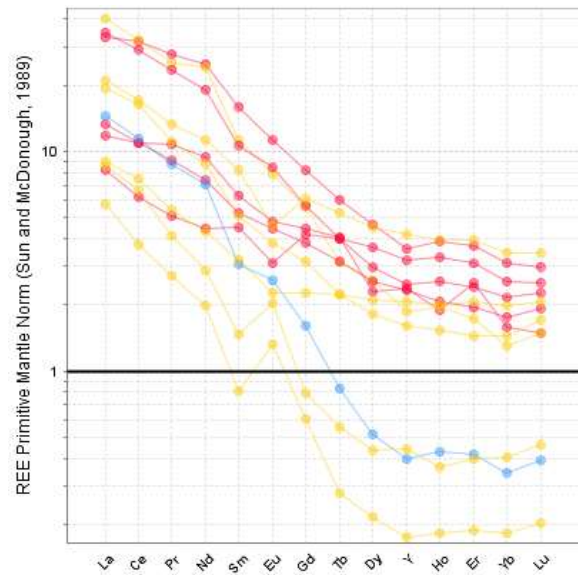
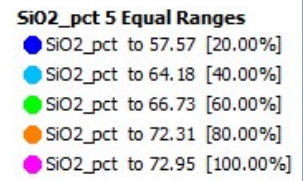
	Tonalite, ±granodiorite
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- ★ Age U-Pb (Hébert pluton): 2695.3 ±1 Ma (David et al. 2009)

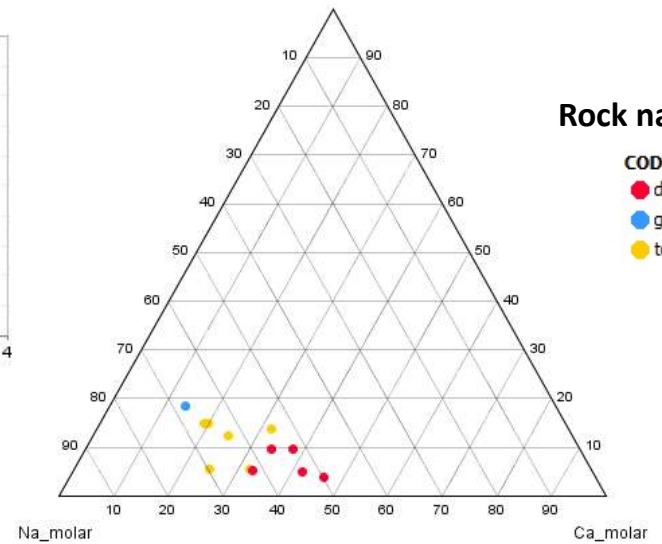




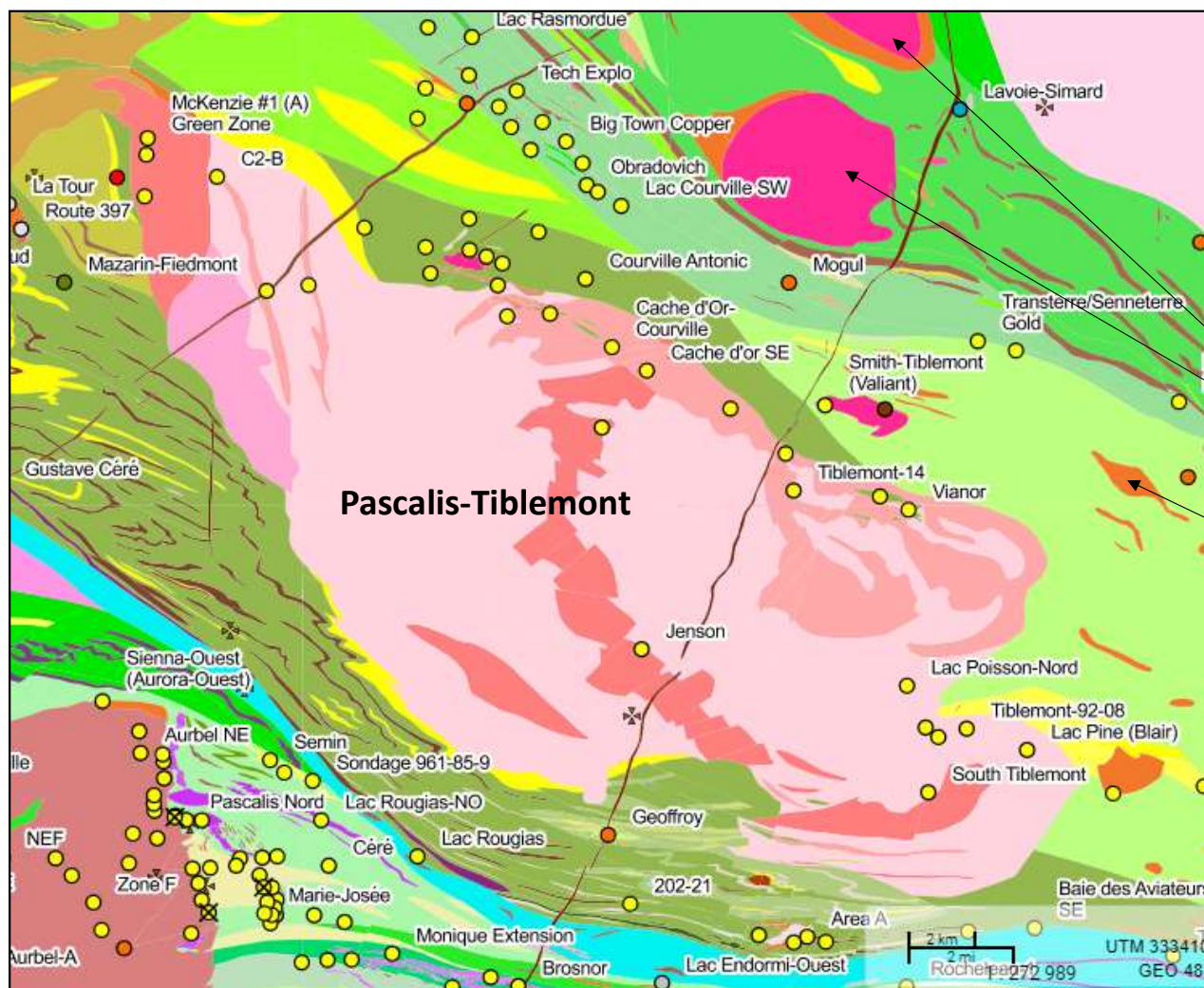
Hébert pluton



Rock names (field)



Pascalis-Tiblemont batholith



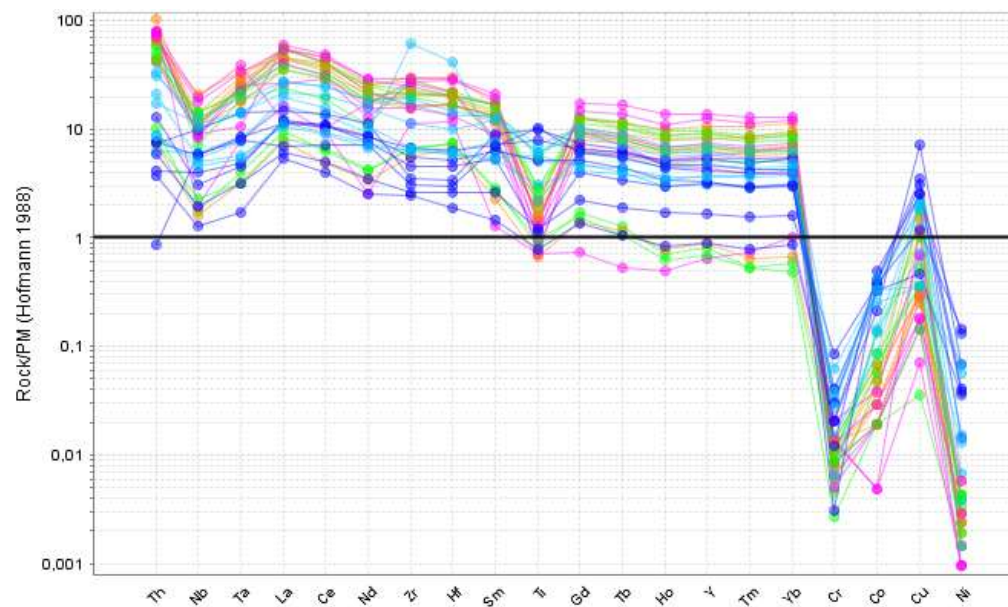
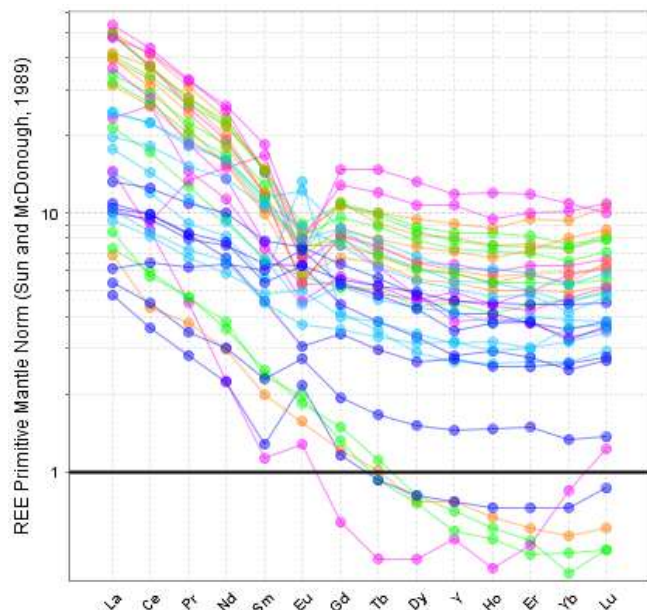
Pascalis-Tiblemont batholith

- Diorite Qz, tonalite, \pm granodiorite – 67.1%
- Tonalite, diorite Qz – 4.0%
- Diorite \pm Qz – 15.0%
- Diorite – 13.7%
- Diorite – 0.2 %

Unnamed intrusions

- Granodiorite, tonalite
- Diorite
- Diorite

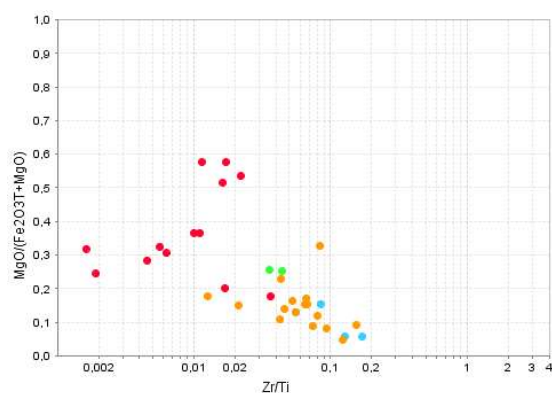
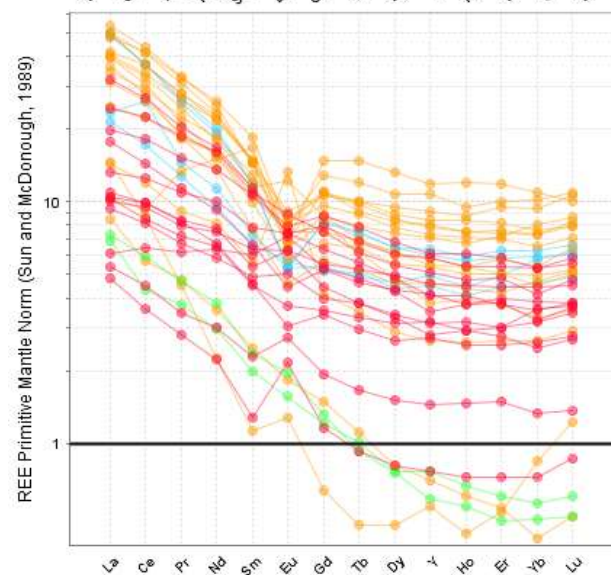
Au showings described as mesothermal Au.



Pascalis-Tiblemont batholith

SiO₂_pct 5 Equal Ranges

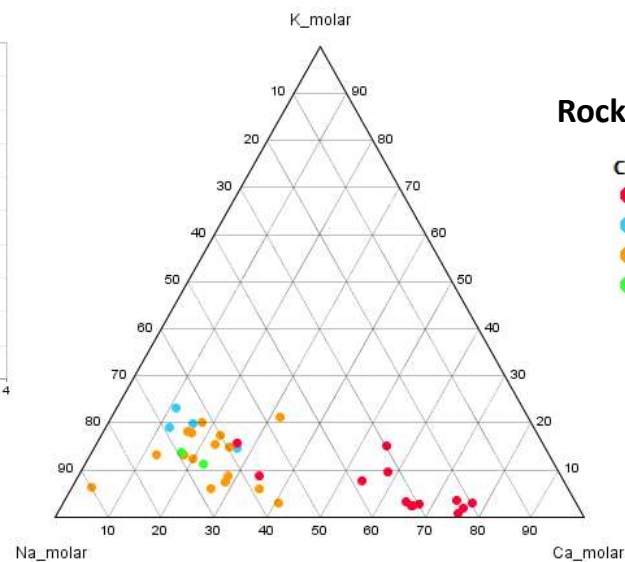
- SiO₂_pct to 50.92 [20.00%]
- SiO₂_pct to 65.6 [40.00%]
- SiO₂_pct to 70.96 [60.00%]
- SiO₂_pct to 74.5 [80.00%]
- SiO₂_pct to 84.55 [100.00%]



Rock names (field)

CODE_ROCH

- diorite
- granodiorite
- tonalite
- trondhjemite



Waswanipi Riv. pluton

Granodiorite

Lapparent intrusive suite

Tonalite (gneiss)

Rachel pluton

Tonalite Bt

Eau Jaune Complex

Diorite, tonalite – 24%
Tonalite, diorite – 67.2%
Trondhjemite – 8.8%

Houghton pluton

Monzodiorite – 46.3%
Tonalite – 49.2%
Diorite, tonalite – 3.6%
Hornblendite – 0.9%

Ouest granodiorite

Granodiorite

Presqu'île pluton

Tonalite, granite

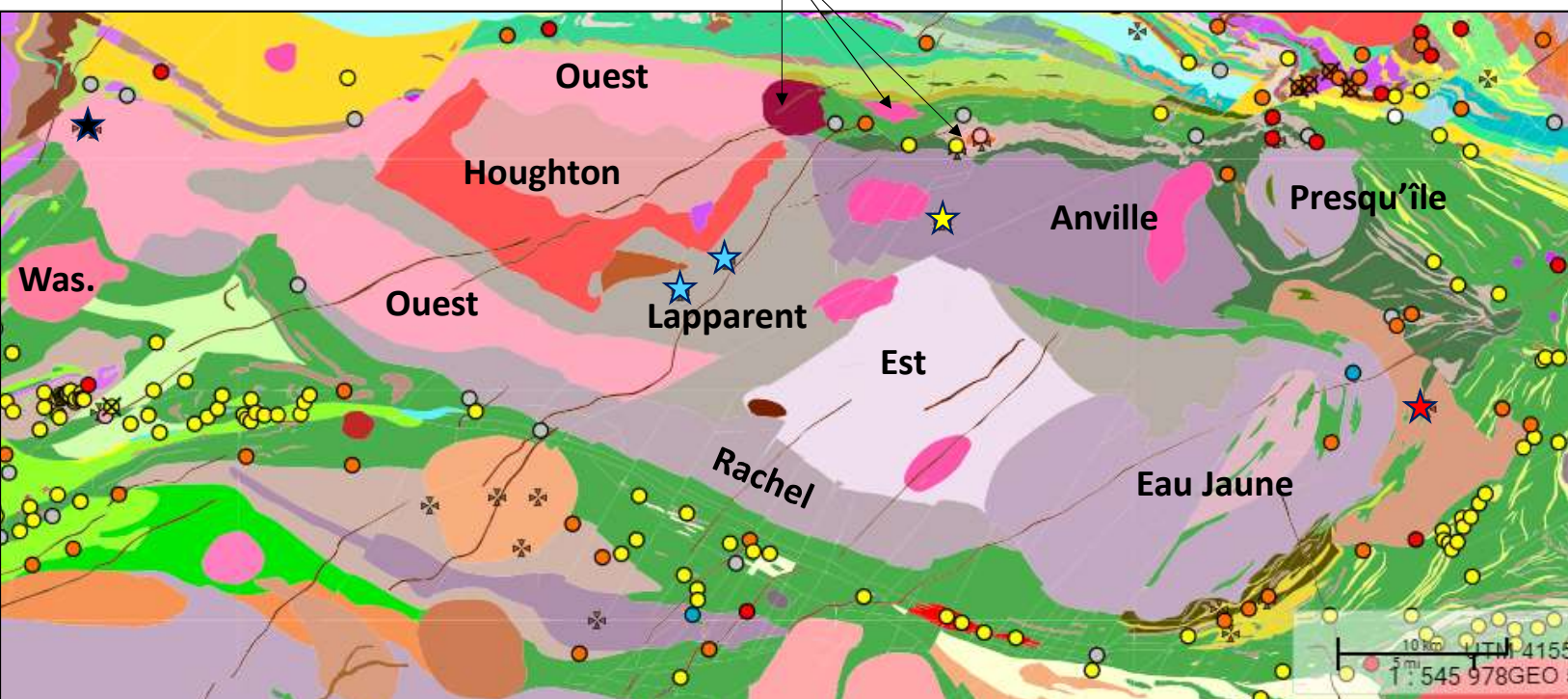
Anville pluton

Tonalite – 86.6%
Granodiorite – 13.4%

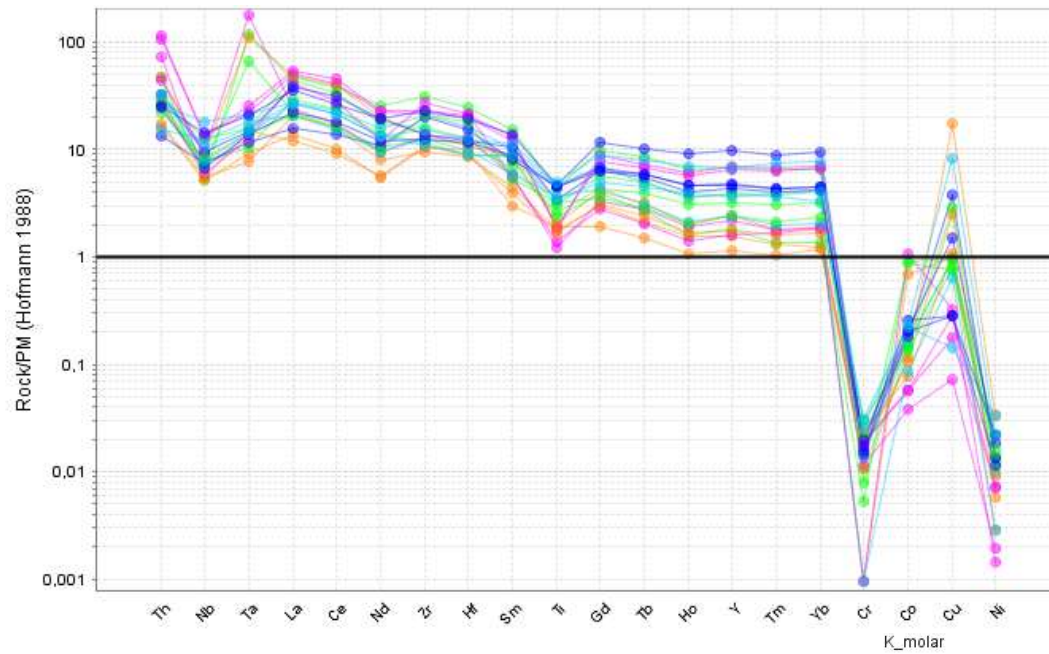
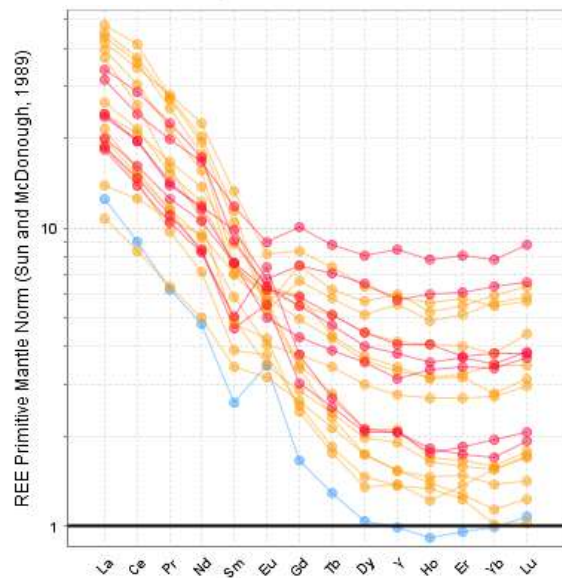
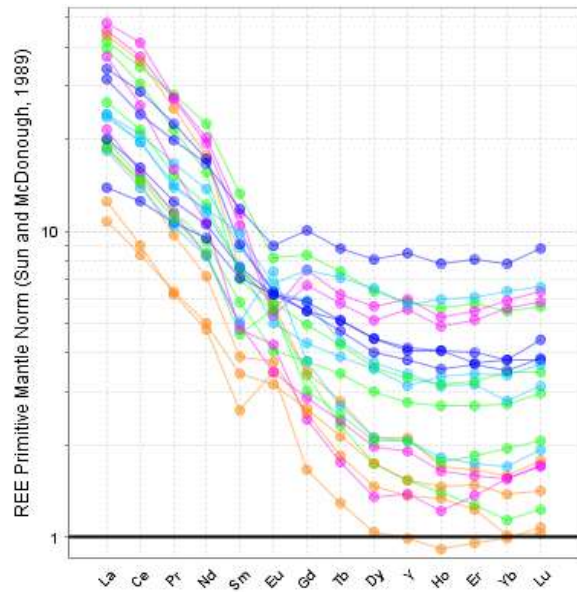
Est tonalite

Tonalite Bt – 95.3%
Granodiorite – 4.7%

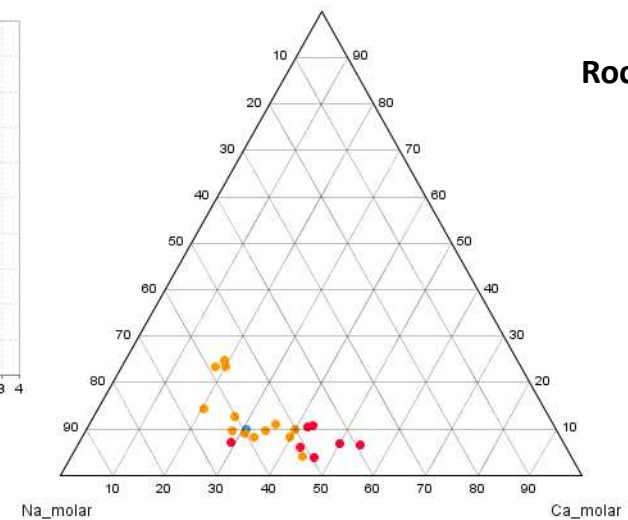
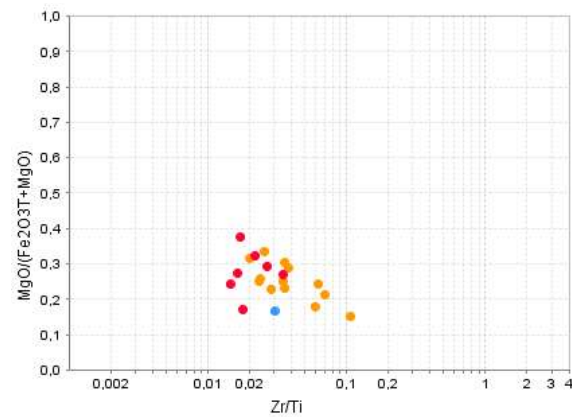
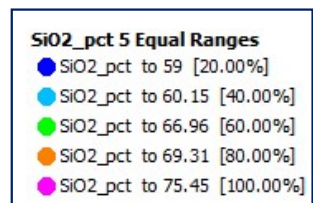
Syenite, carbonatite



- Age U-Pb (tonalite):
★ 2712 ± 1 Ma, 2713.4 ± 2.5 Ma (Mortensen 1993)
- Age U-Pb (granodiorite): ★ 2714.8 ± 0.6 Ma (Augland et al. 2016)
- Age U-Pb (tonalite): ★ 2700 ± 2 Ma (Mortensen 1993)
- Age U-Pb (diorite): ★ 2718.6 ± 5.5 Ma (David 2018)

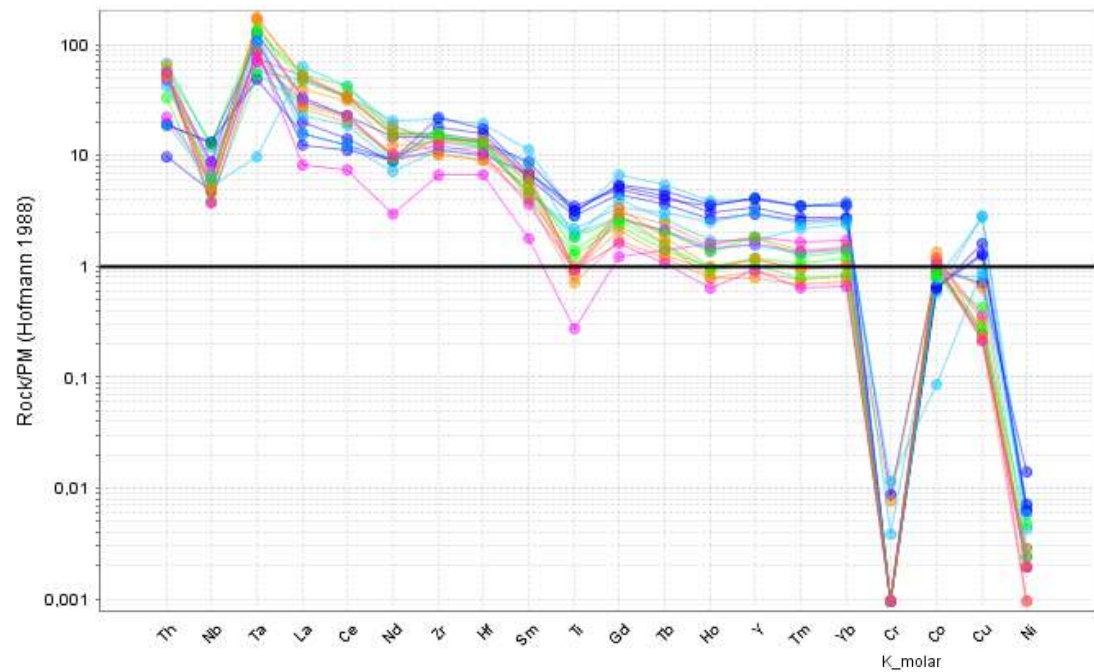
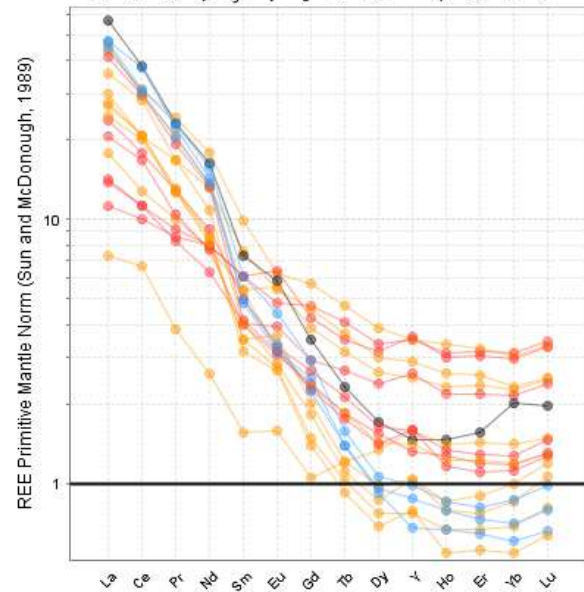
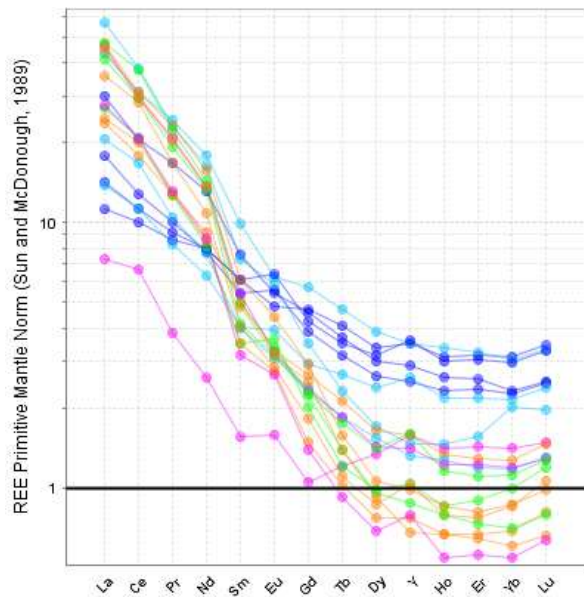


Eau Jaune complex



Rock names (field)

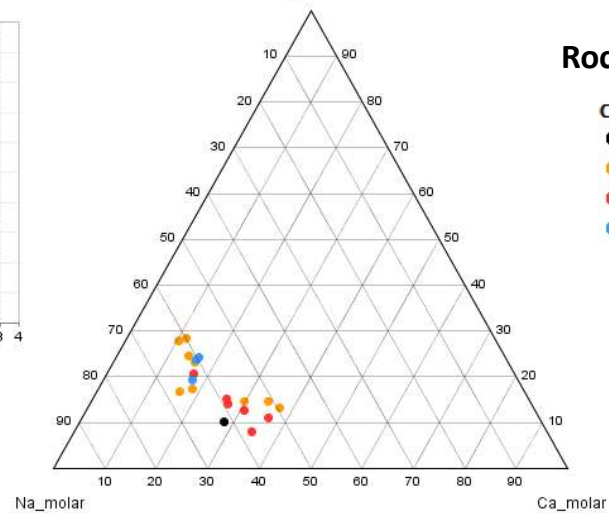
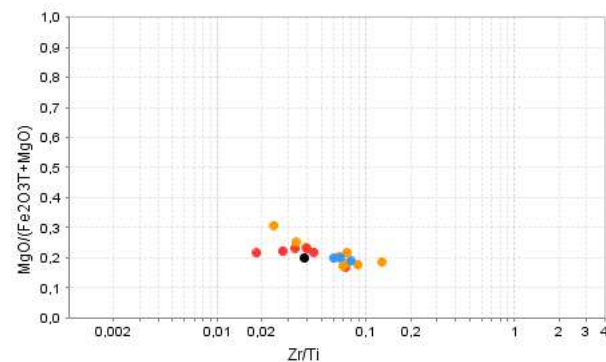




Anville and Rachel plutons

SiO₂_pct 5 Equal Ranges

- SiO₂_pct to 63.97 [20.00%]
- SiO₂_pct to 69.14 [40.00%]
- SiO₂_pct to 71.24 [60.00%]
- SiO₂_pct to 72.74 [80.00%]
- SiO₂_pct to 75.09 [100.00%]



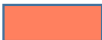
CODE_ROCH

- Anville (diorite)
- Anville (tonalite)
- Rachel (tonalite)
- tonalite (granodiorite)

Hazeur pluton

 Tonalite

Muscocho pluton

 Granodiorite Hnbl


Verneuil pluton

 Tonalite, granodiorite

La Dauversière pluton

 Tonalite, granodiorite

Boisvert pluton

 Tonalite, granodiorite

Némenjiche pluton

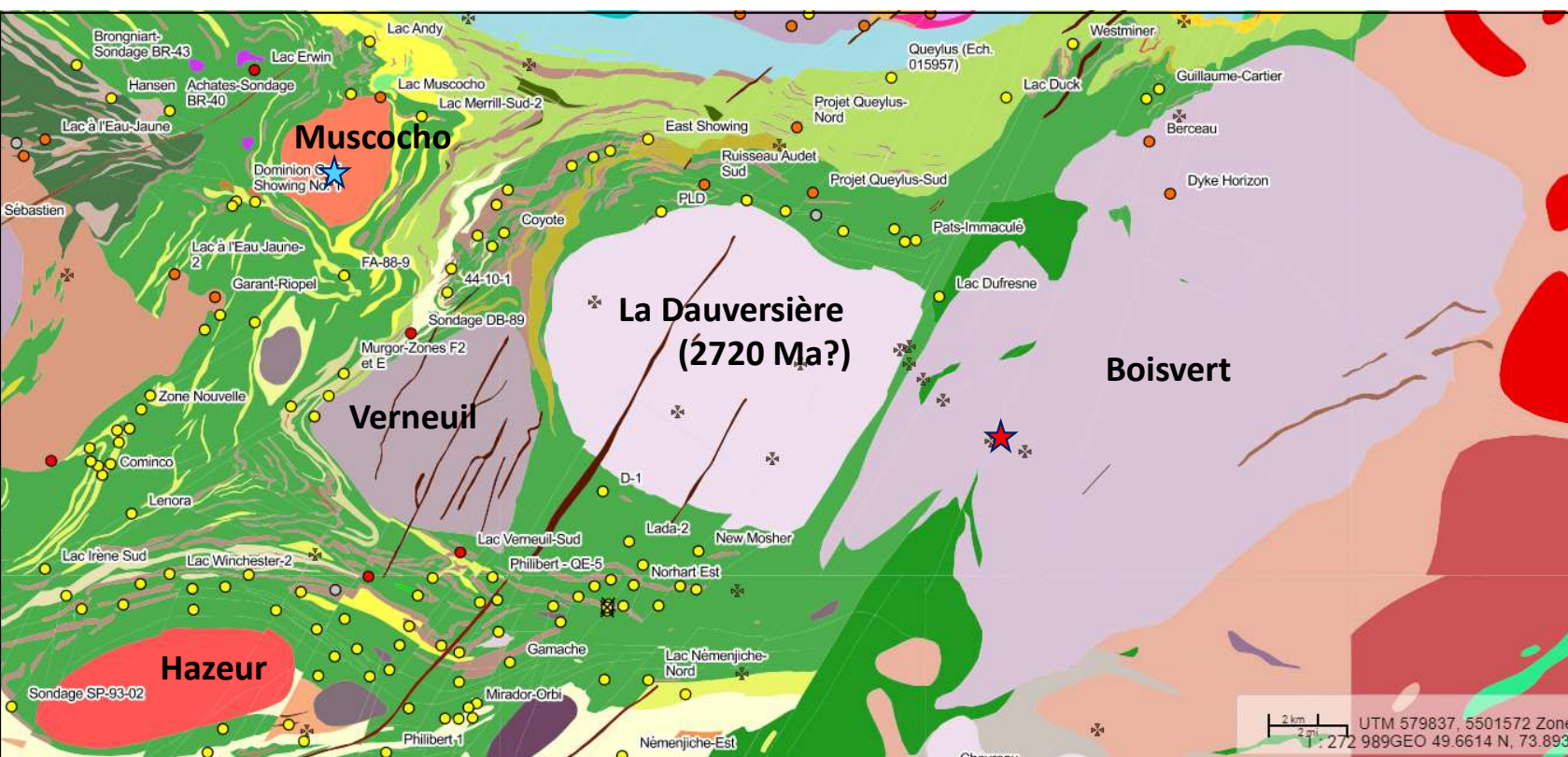
 Tonalite

Unnamed

 Tonalite

Chico stock

 Tonalite



- Age U-Pb (granodiorite):
2701 \pm 2, -1 Ma
(Mortensen 1993)

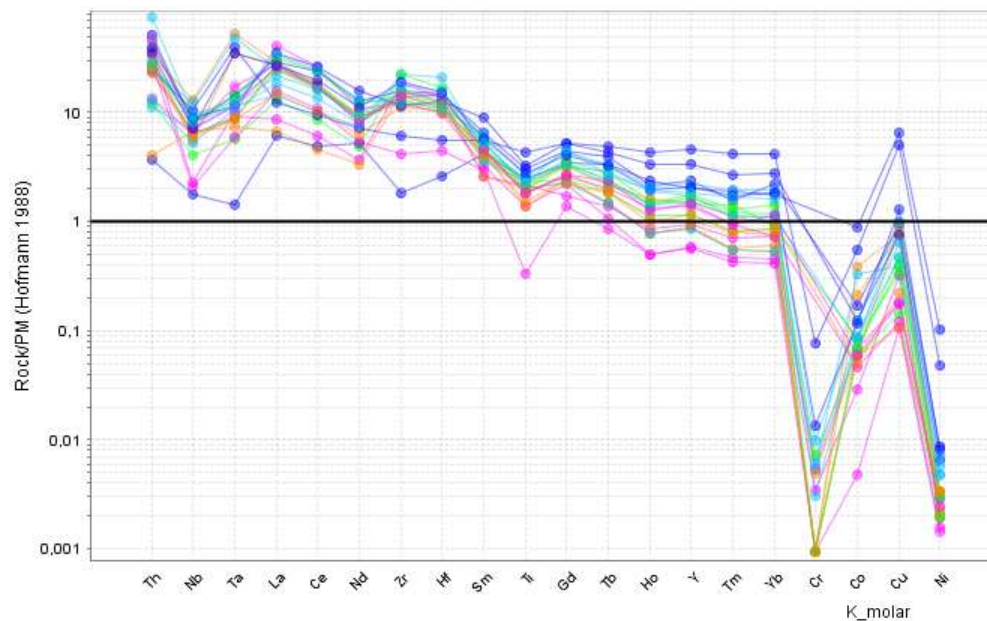


- Age U-Pb:
2697 \pm 3 Ma
(Davis et al. 2005)

La Dauversière pluton

SiO₂_pct 5 Equal Ranges

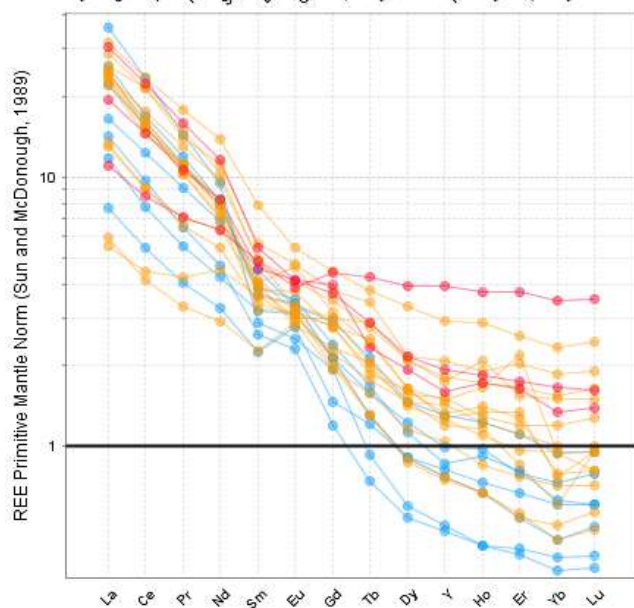
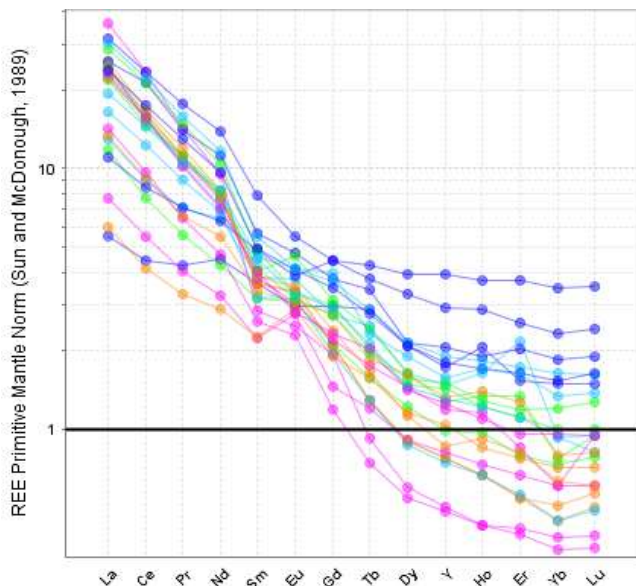
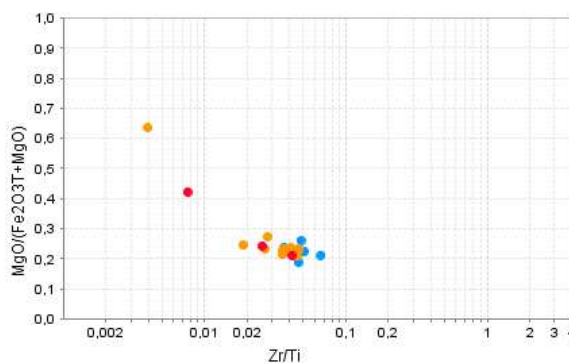
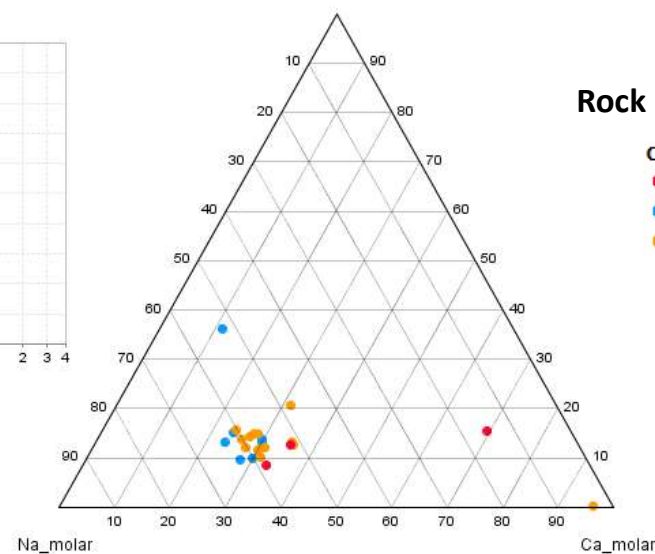
- SiO₂_pct to 65.13 [20.00%]
- SiO₂_pct to 68.24 [40.00%]
- SiO₂_pct to 68.8 [60.00%]
- SiO₂_pct to 70.6 [80.00%]
- SiO₂_pct to 74.8 [100.00%]



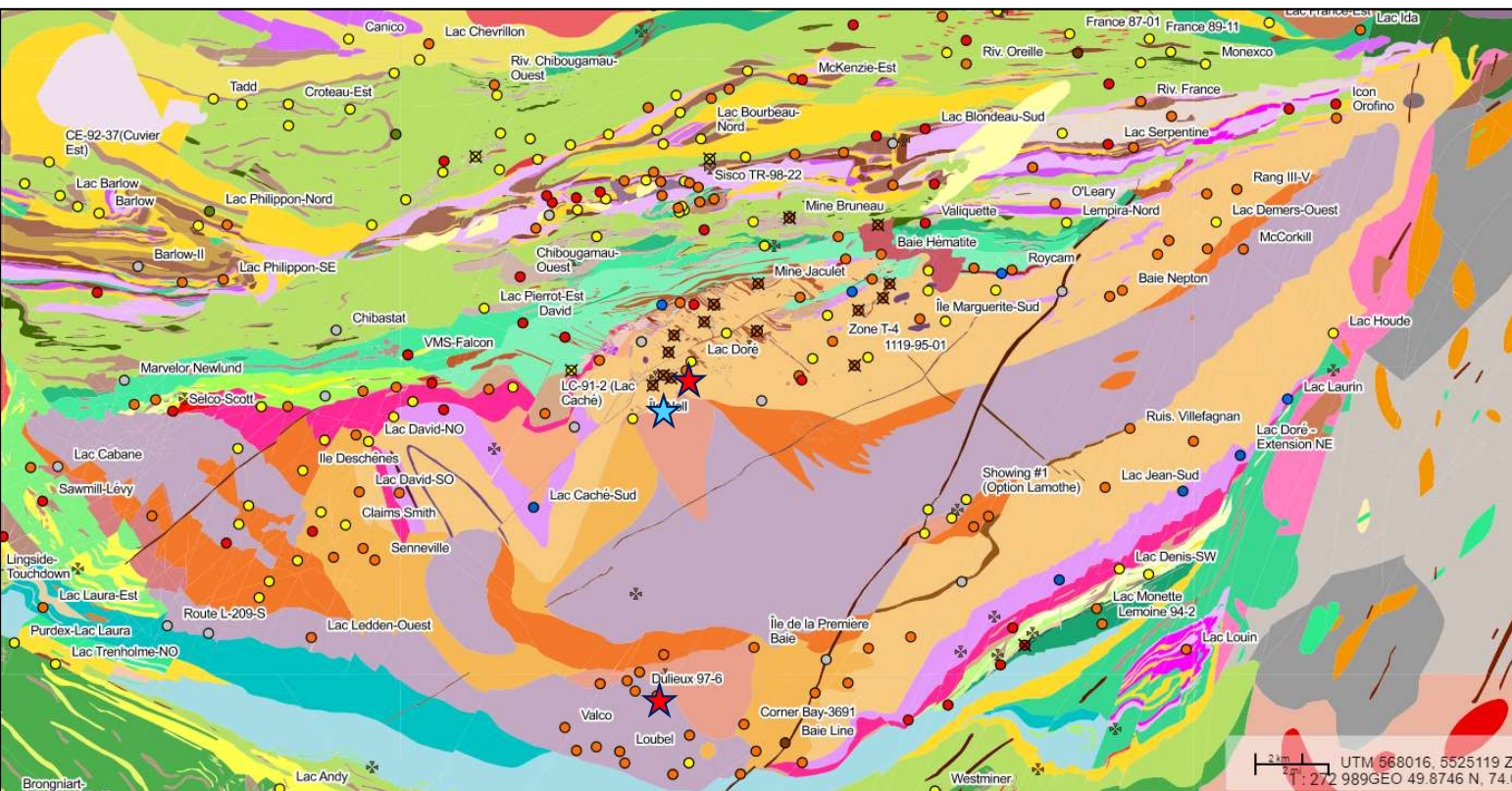
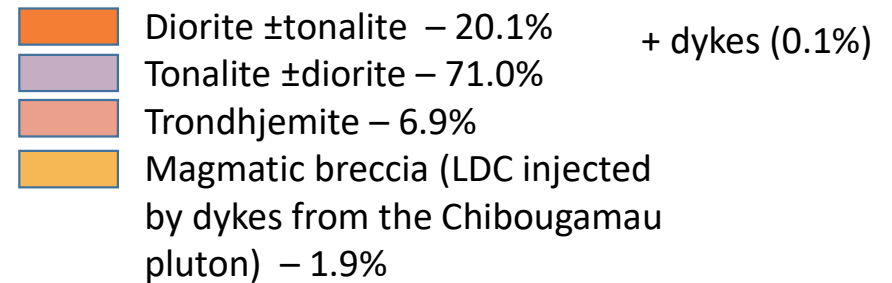
Rock names (field)

CODE_ROCH

- diorite
- granodiorite
- tonalite

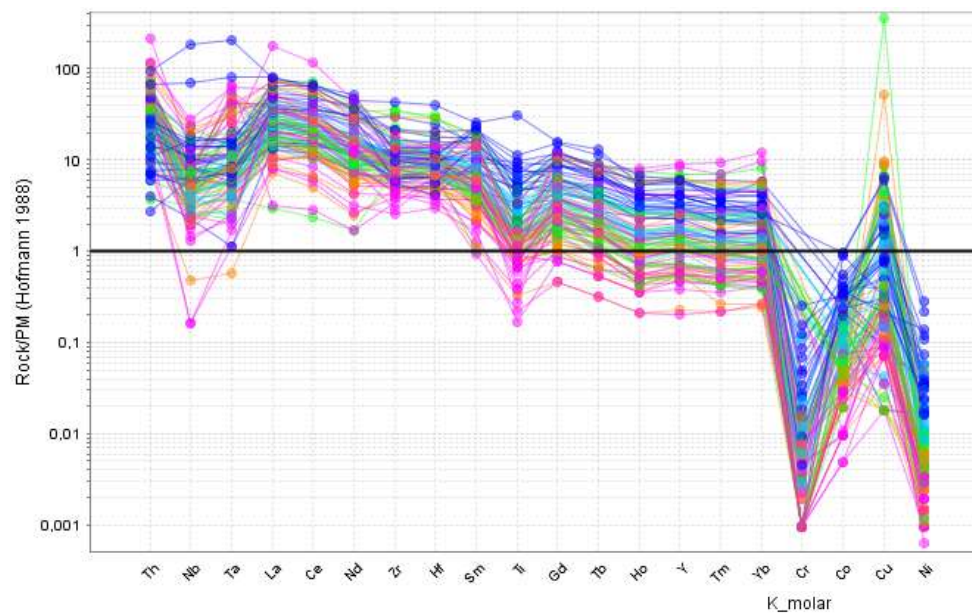
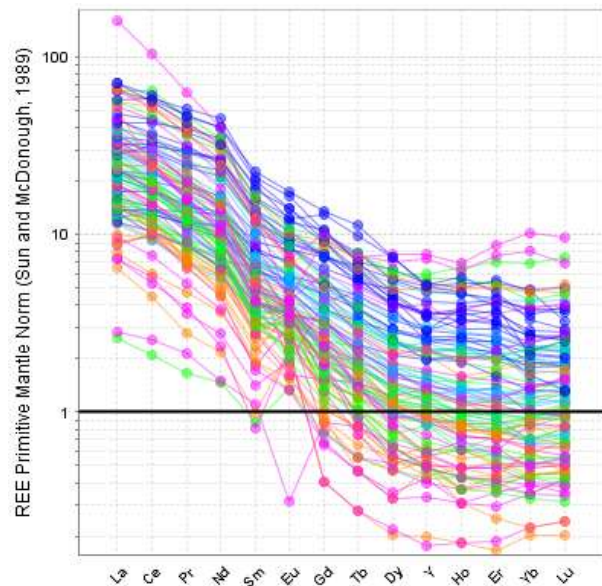


Chibougamau pluton



- ★ • Age U-Pb (tonalite): **2718 ± 2 Ma** (Krogh and Davis 1971)
- ★ • Age U-Pb: **2705-2701 Ma** (David et al. 2010; McNicoll et al. 2008)

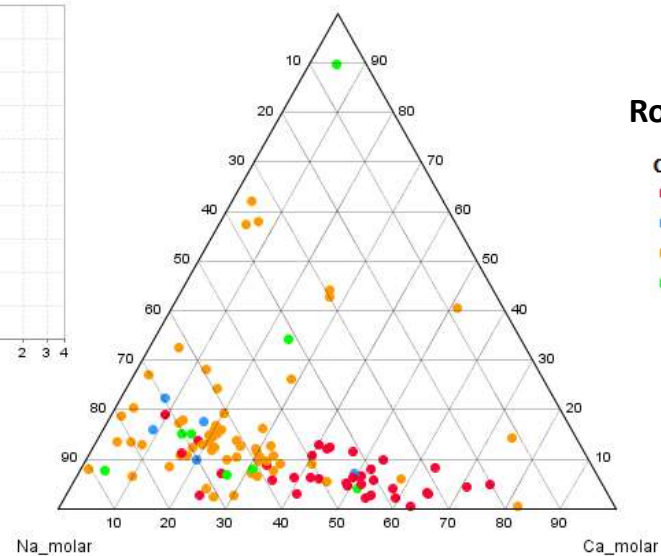
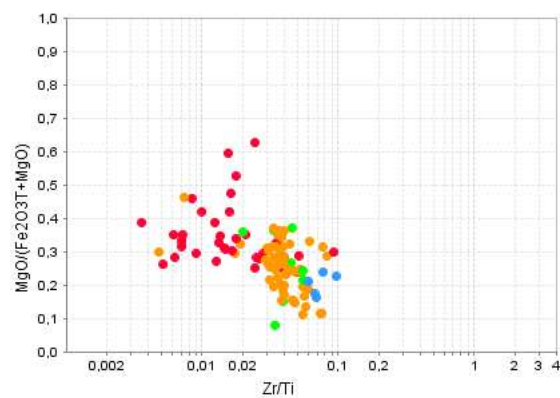
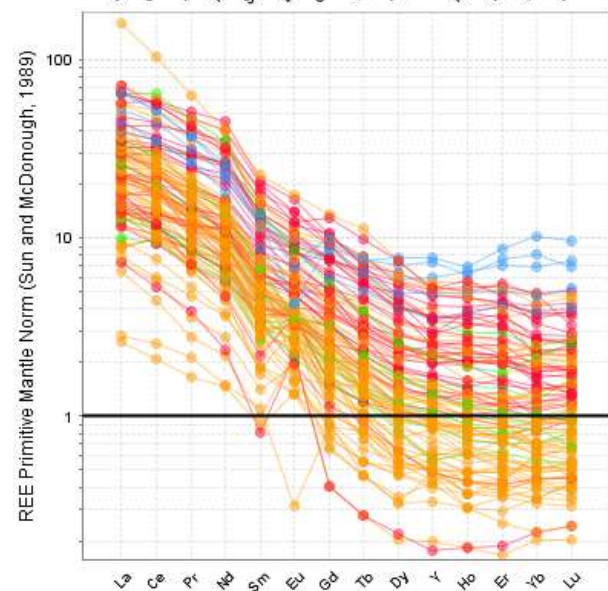
Several Cu-Au porphyry-style deposits and showings



Chibougamau pluton

SiO₂_pct 5 Equal Ranges

- SiO₂_pct to 56.43 [20.00%]
- SiO₂_pct to 66.98 [40.00%]
- SiO₂_pct to 69.31 [60.00%]
- SiO₂_pct to 71.1 [80.00%]
- SiO₂_pct to 76.59 [100.00%]

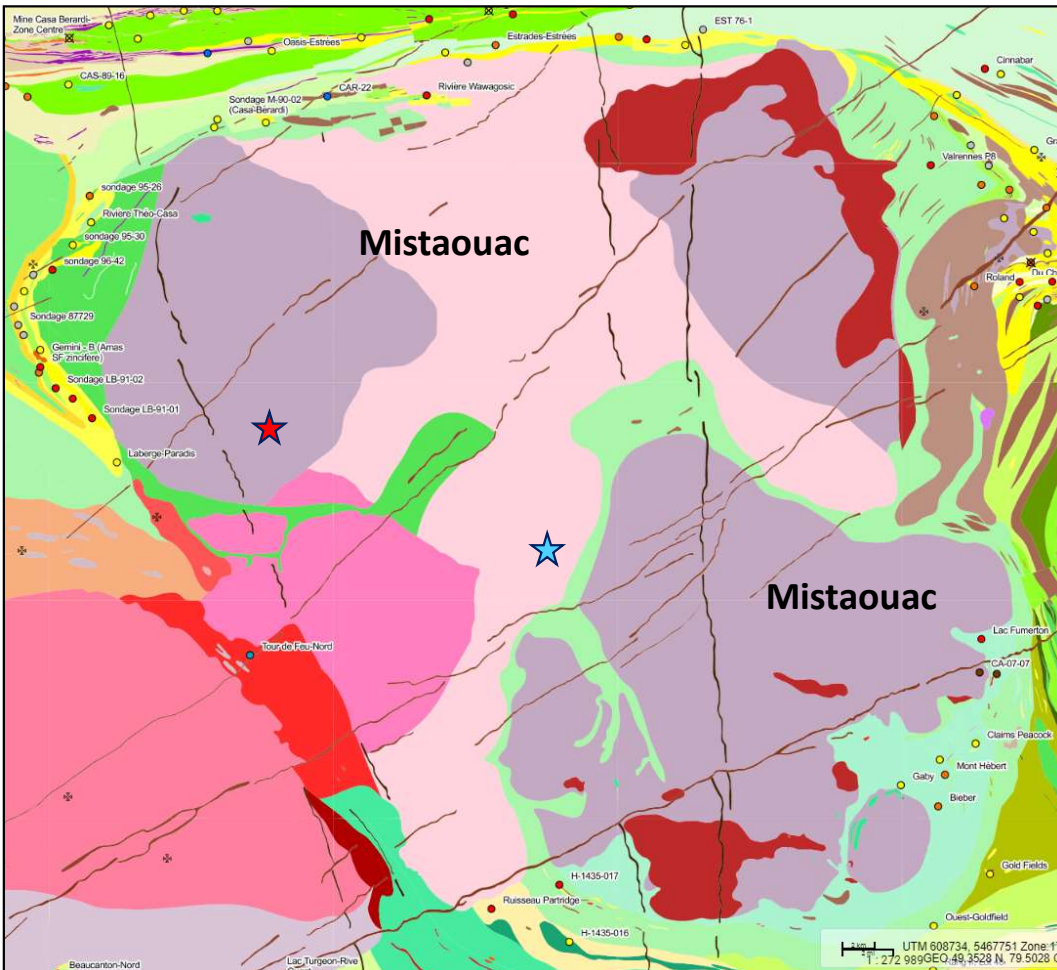


Rock names (field)

CODE_ROCH

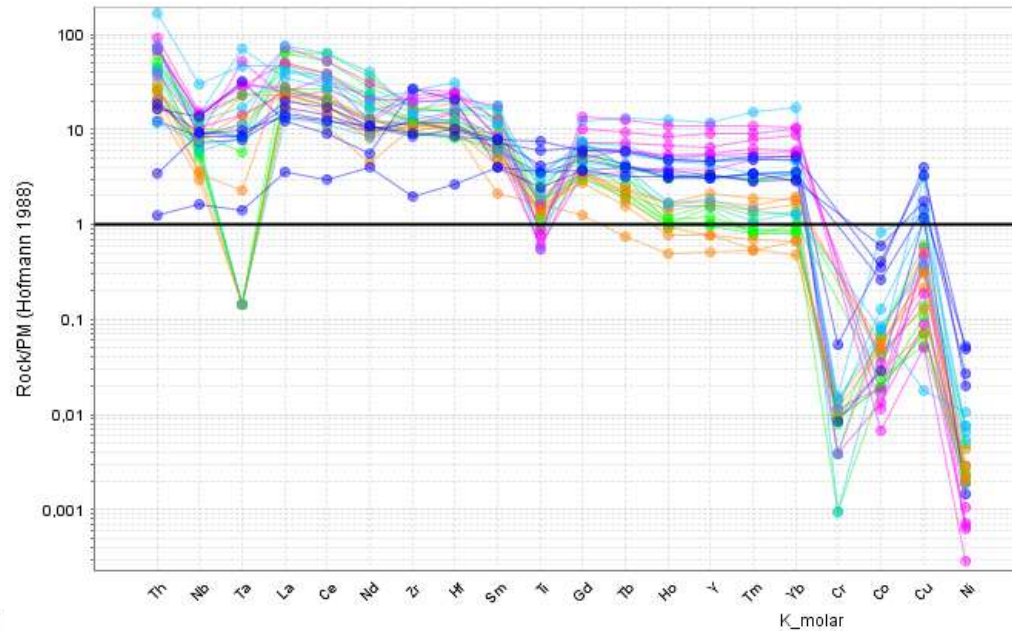
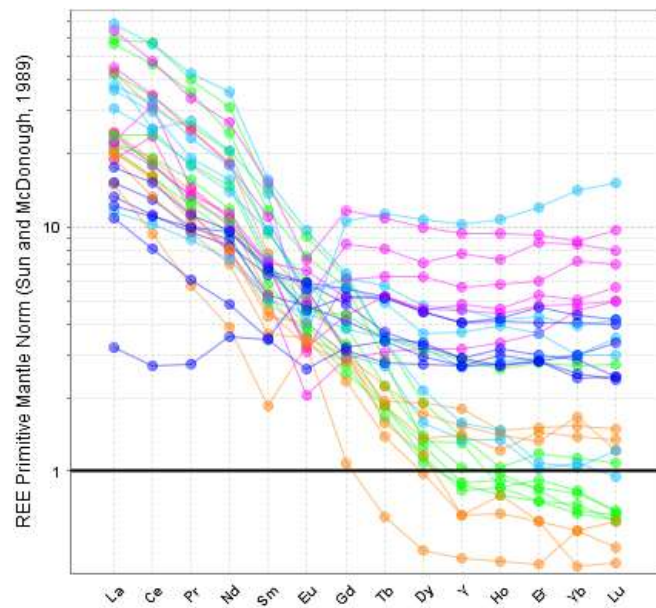
- diorite
- granite, granodiorite
- tonalite
- trondhjemite

Mistaouac pluton

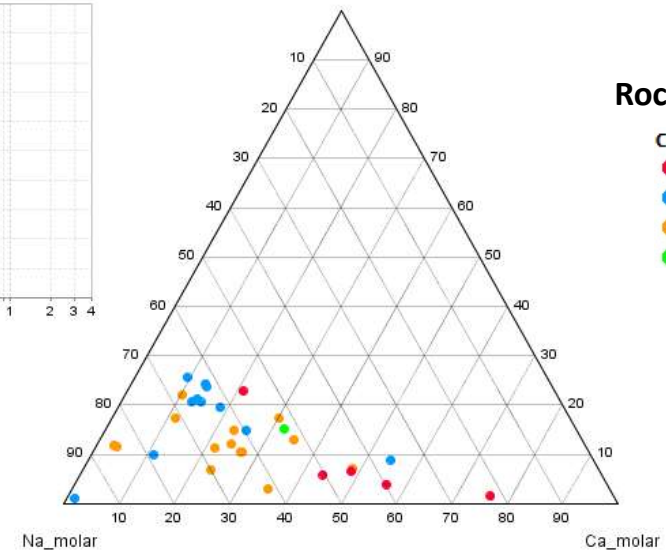
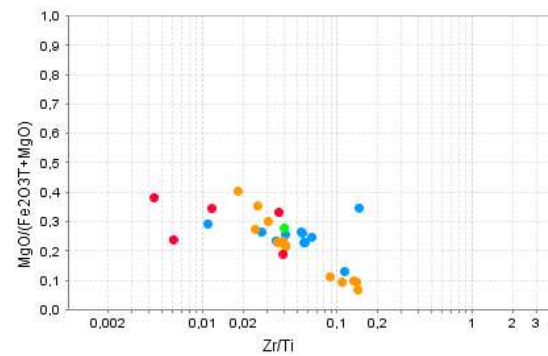
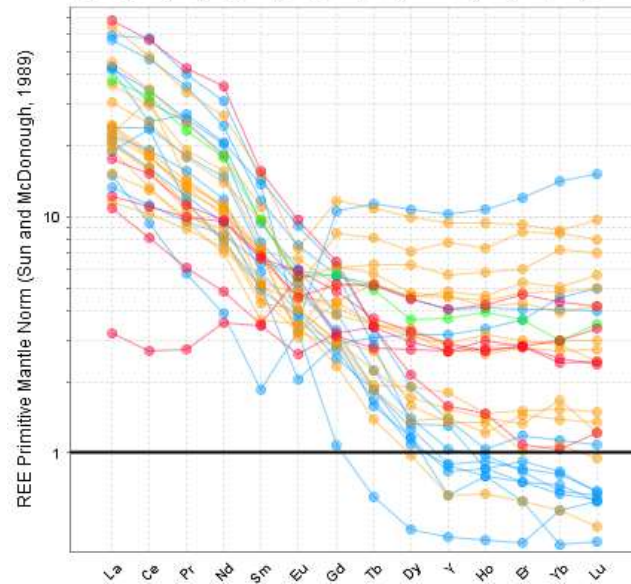


- Tonalite Bt ±Hnbl – 51.0% (aerial surface)
- Granite Bt – 8.4%
- Granodiorite and granite Hnbl-Bt – 33.3%
- Diorite ±Qz, Hnbl – 7.3%

- ★ Age U-Pb (granodiorite-tonalite): **2727 ±9 Ma**;
★ **2724 ±4 Ma** (*Davis et al. 1993*)
- ★ Age U-Pb (tonalite): **2726 ±2 Ma** (*Davis et al. 2000*)



Mistaouac pluton



Intermediate and felsic intrusions characterized by $(\text{La}/\text{Yb})_N < 6$

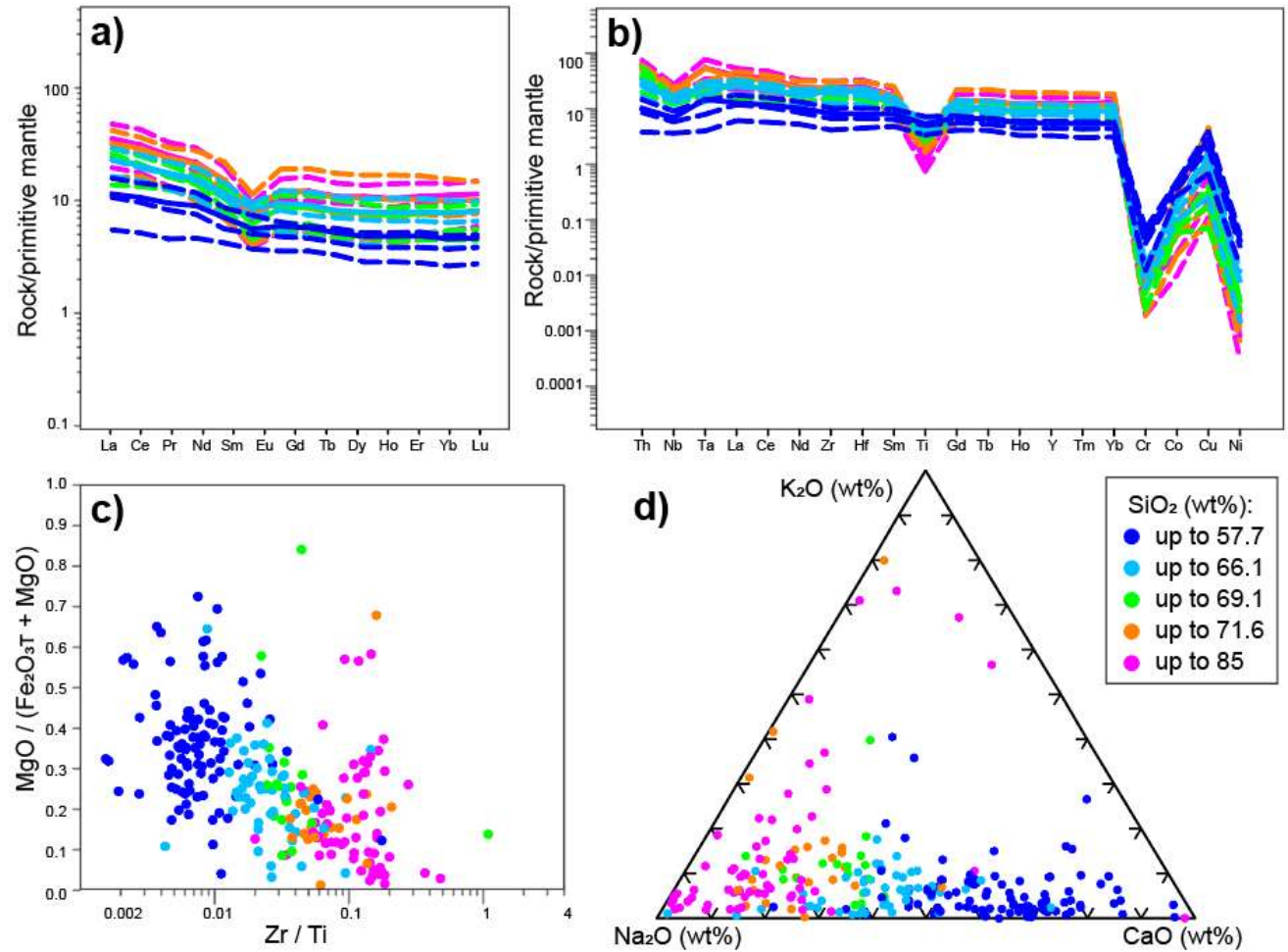



Figure 6 (see manuscript for details)


Dufault and Powell plutons

Default pluton

 Granodiorite – 100%

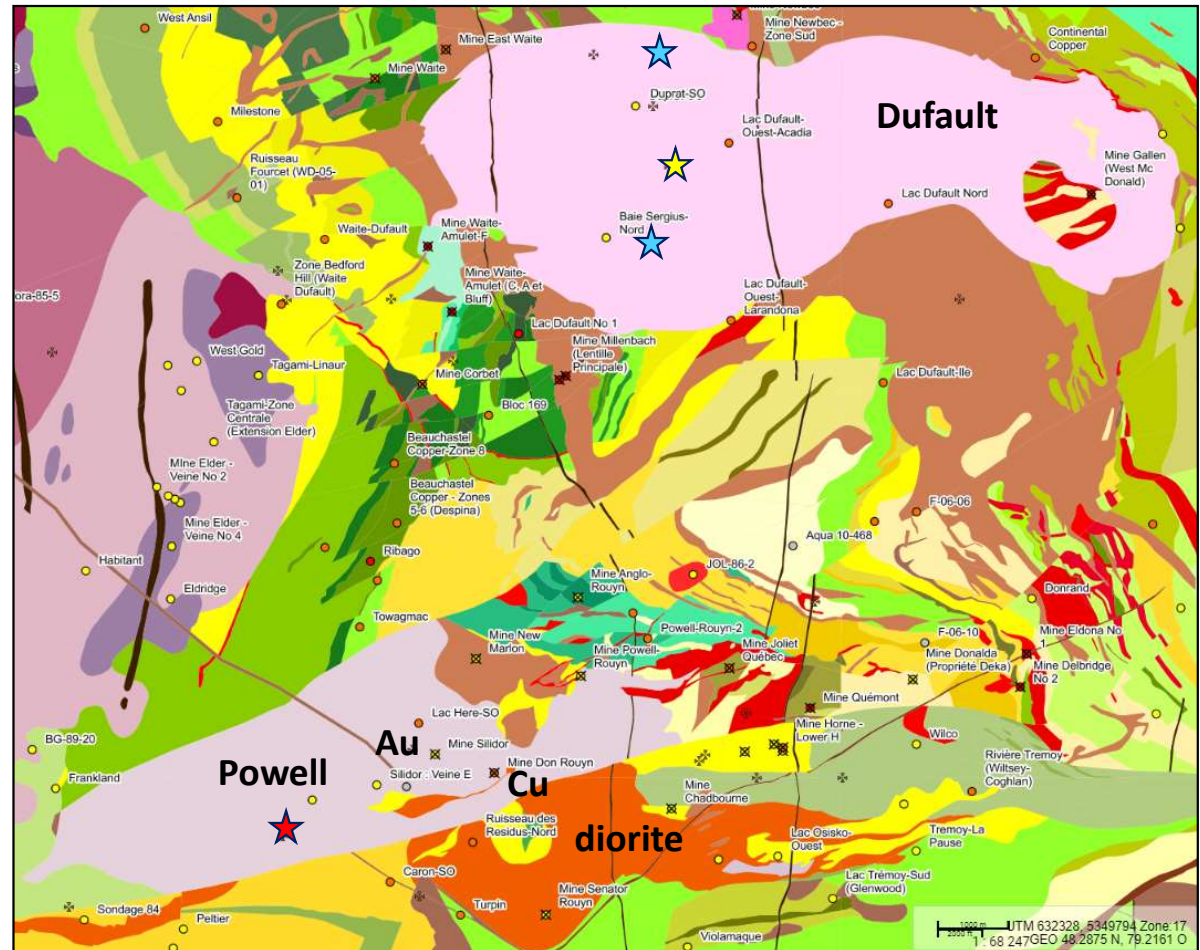
Powell pluton

 Tonalite – 63.5%

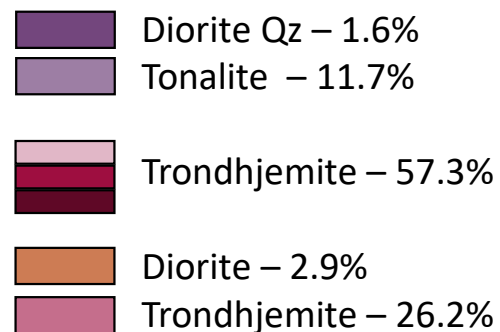
 Diorite – 36.5% **Powell pluton?**



- ★ Age U-Pb (granodiorite): 2690 ± 2 Ma, 2698 ± 2 Ma (*Mortensen 1993*)
- ★ Age U-Pb (tonalite): $2720 +3, -1$ Ma (*Mortensen 1993*)
- ★ Age U-Pb (tonalite): 2700 ± 1 Ma (*McNicoll et al. 2011*)

Au	Mesothermal Au deposit in the Powell pluton
Cu	Cu-Mo-Au-Ag magmatic-hydrothermal ('porphyry-style') deposit associated with the Powell pluton

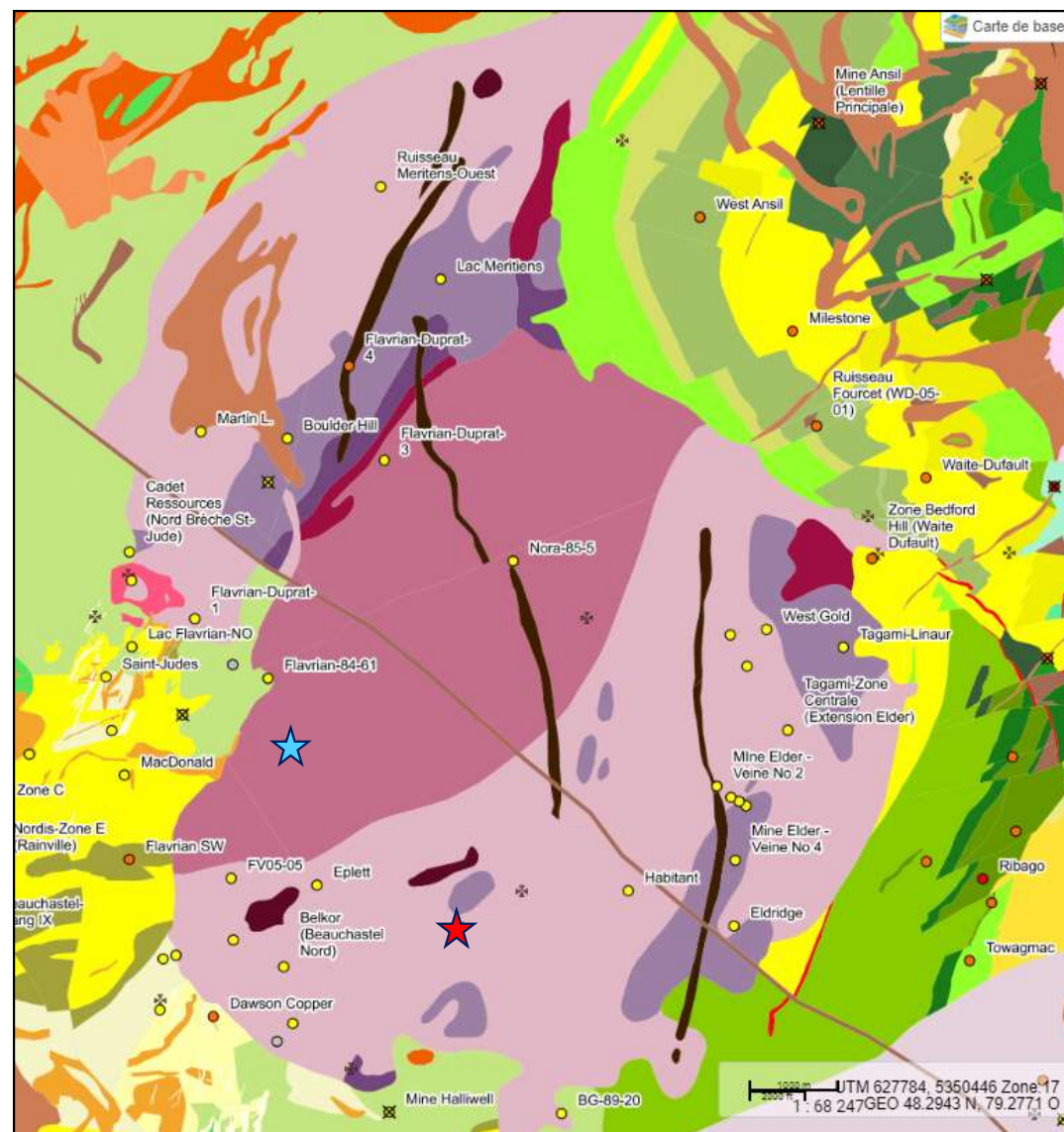


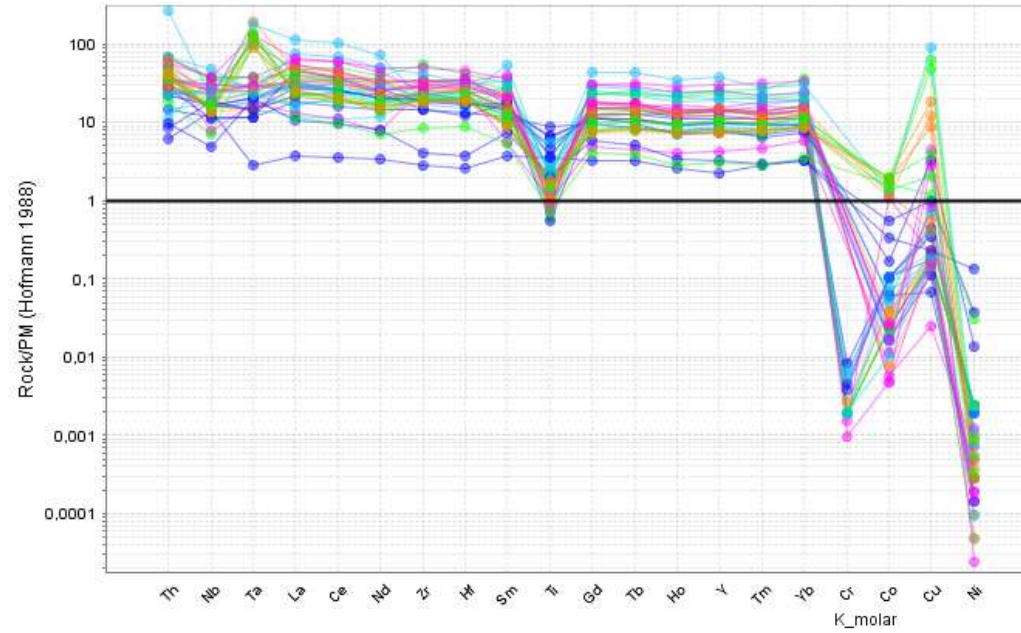
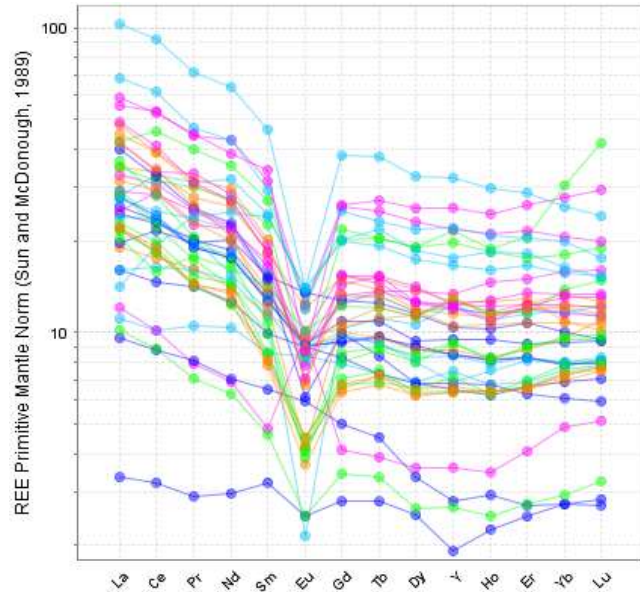
Flavrian pluton



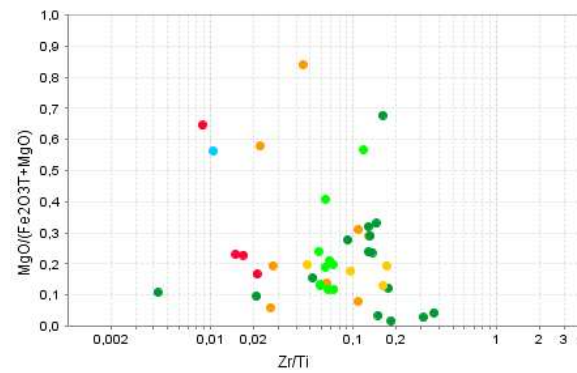
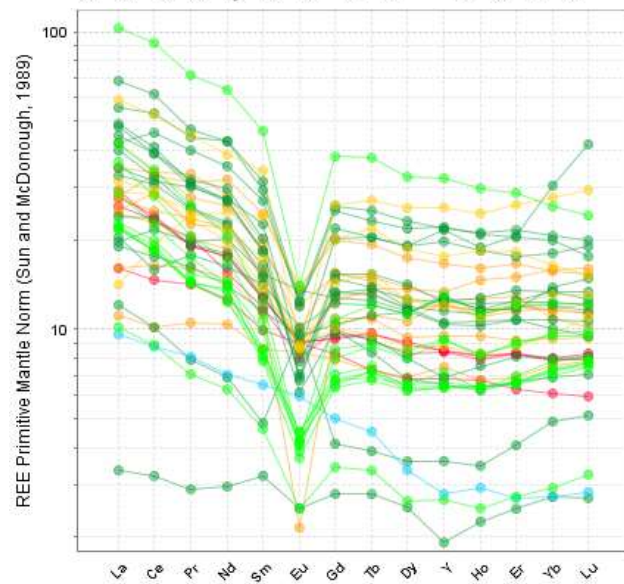
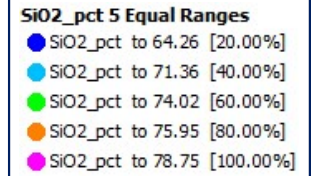
- Age U-Pb (trondhjemite): **2700.7 ±0.6 Ma** (McNicoll *et al.* 2014) 
- Age U-Pb (trondhjemite): **2701 +3,-1 Ma** (Mortensen 1993) 

Au showings and deposits in the Flavrian pluton mostly described as mesothermal Au.

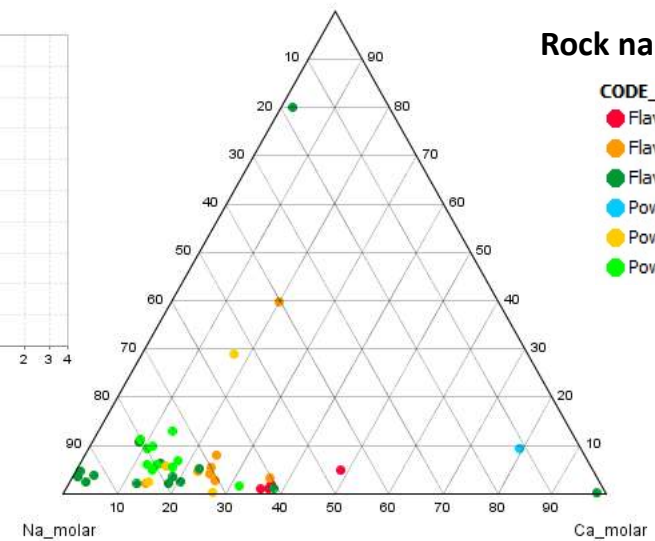
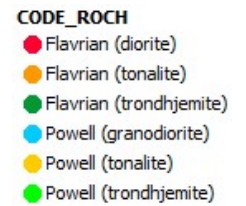




Powell and Flavrian plutons



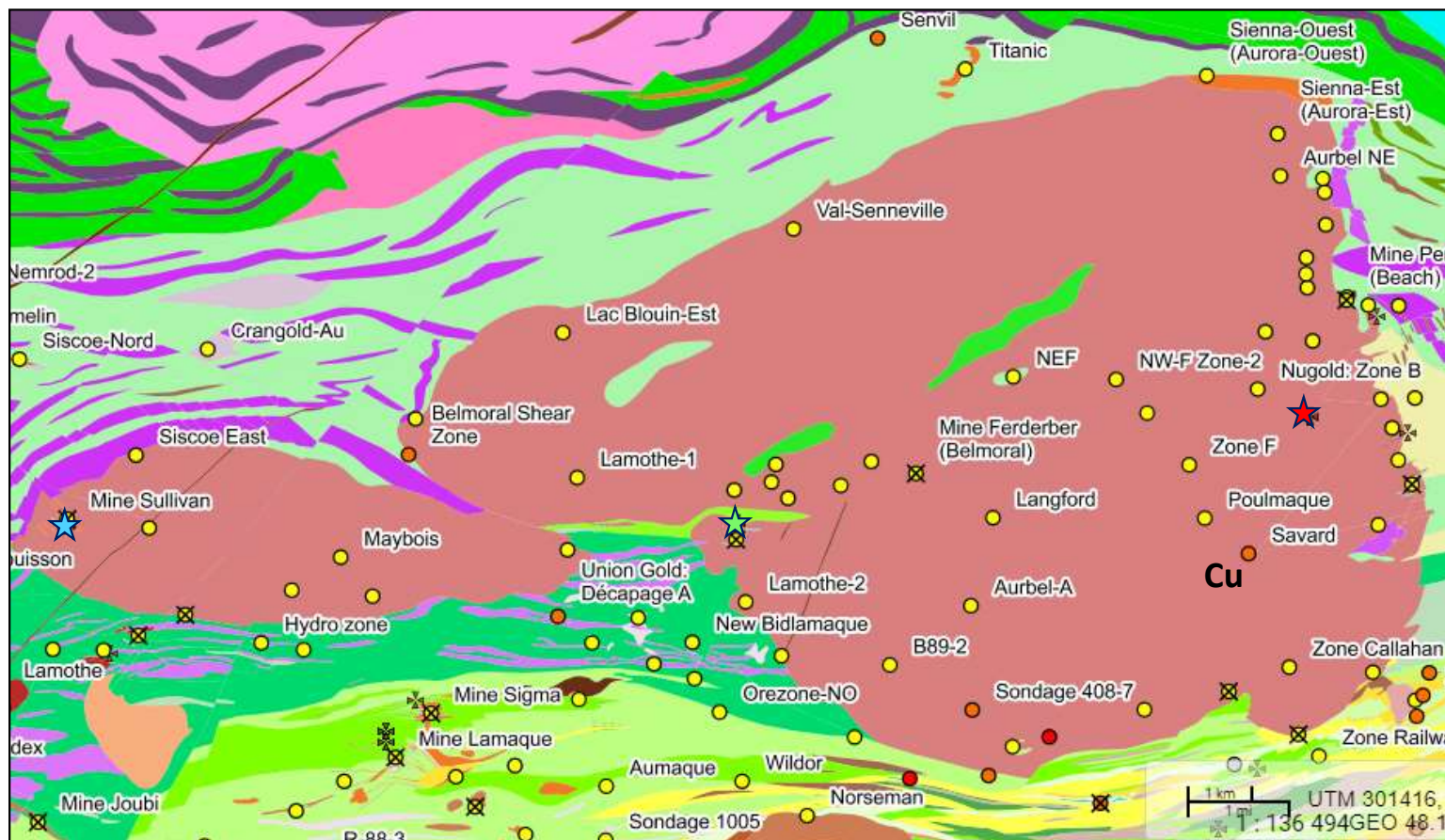
Rock names (field)



Bourlamaque pluton

- Diorite and tonalite – 99.5%
- Diorite (Bourlamaque?) – 0.5%

- Age U-Pb (diorite):
★ $2704.7 \pm 0.8 \text{ Ma}$ (David 2019)
- Age U-Pb (altered ultramafic? rock):
★ $2710 \pm 5, -4 \text{ Ma}$ (Taner and Trudel 1989)
- Age U-Pb (altered granodiorite): $2711 \pm 12 \text{ Ma}$ (Claoué-long et al. 1990)



Au showings described as mesothermal Au.

Cu Cu showing associated with a porphyry dyke

Waswanipi Riv. pluton

Granodiorite

Lapparent intrusive suite

Tonalite (gneiss)

Rachel pluton

Tonalite Bt

Eau Jaune Complex

Diorite, tonalite – 24%
Tonalite, diorite – 67.2%
Trondhjemite – 8.8%

Houghton pluton

Monzodiorite – 46.3%
Tonalite – 49.2%
Diorite, tonalite – 3.6%
Hornblendite – 0.9%

Ouest granodiorite

Granodiorite

Presqu'île pluton

Tonalite, granite

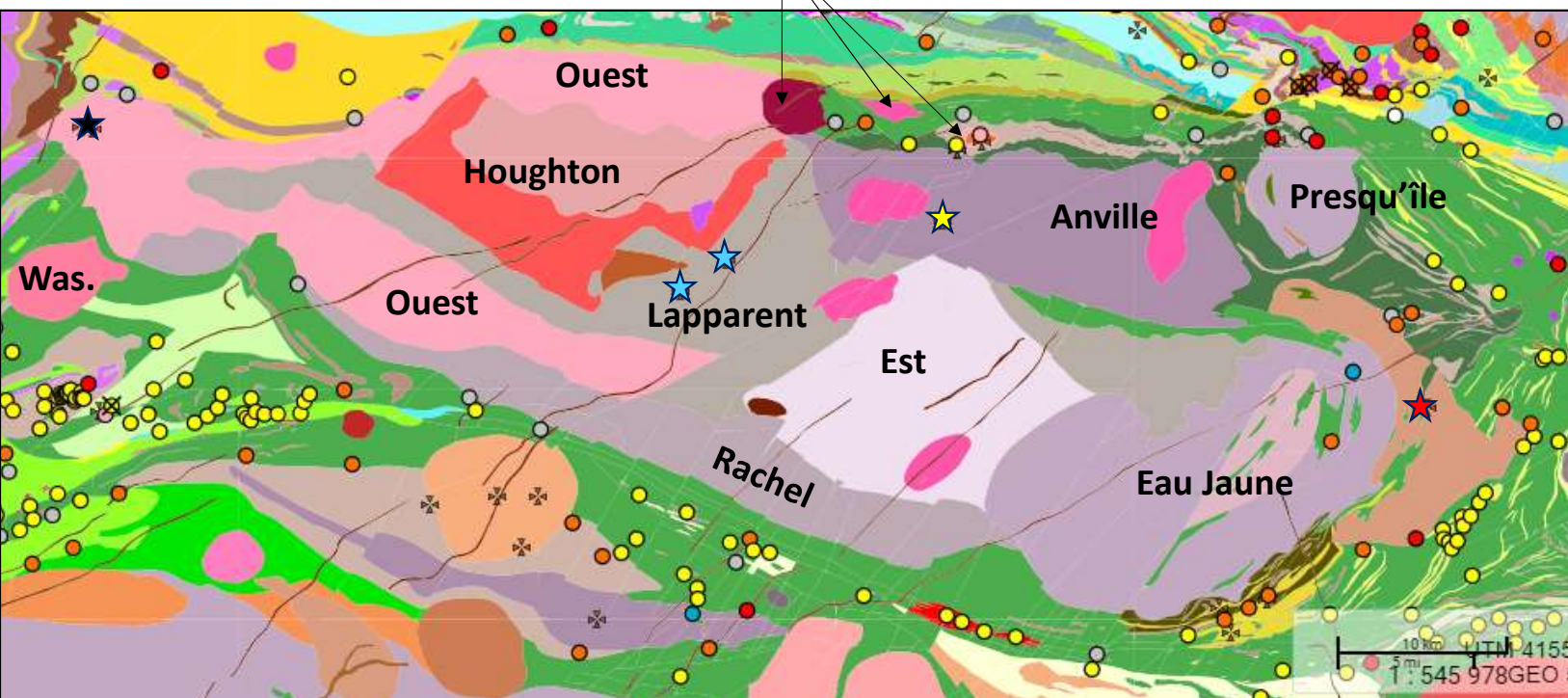
Anville pluton

Tonalite – 86.6%
Granodiorite – 13.4%

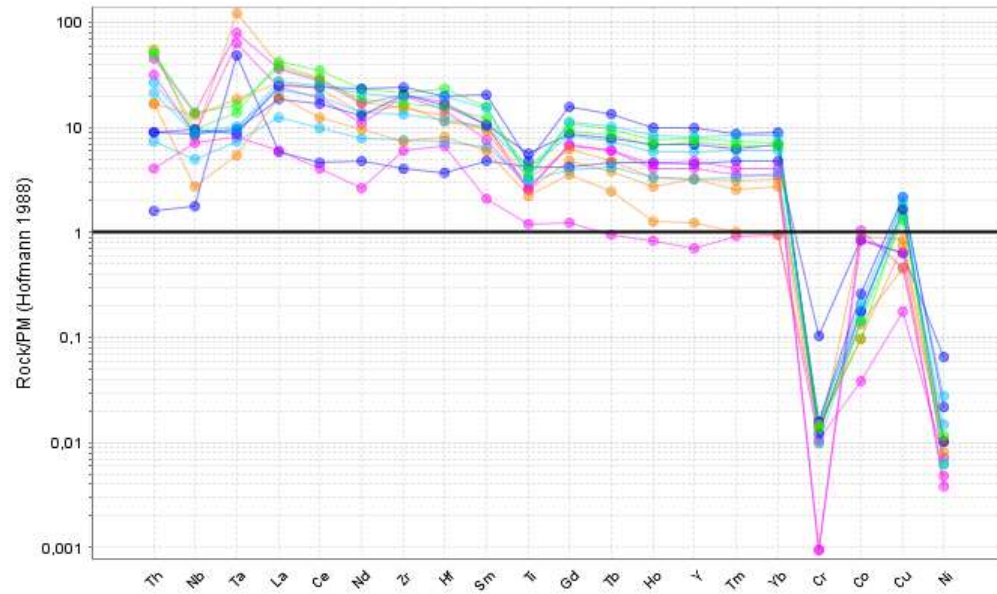
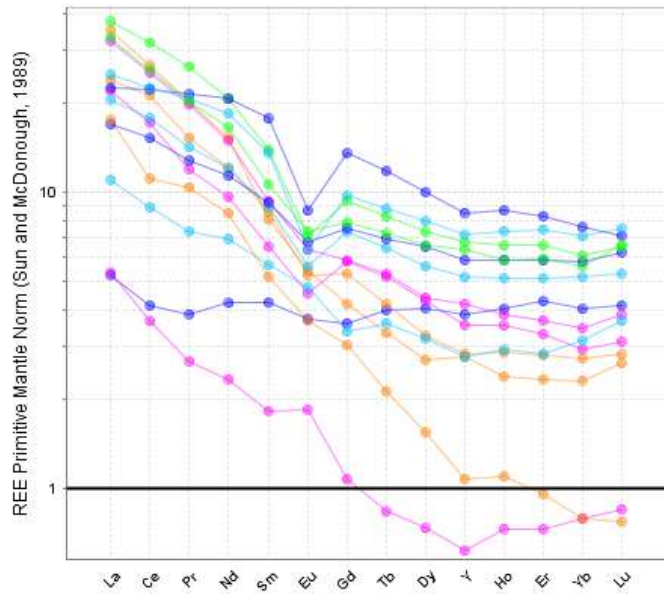
Est tonalite

Tonalite Bt – 95.3%
Granodiorite – 4.7%

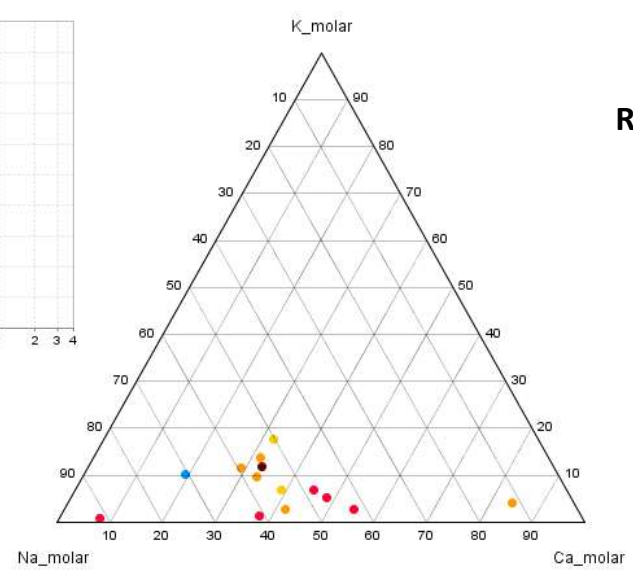
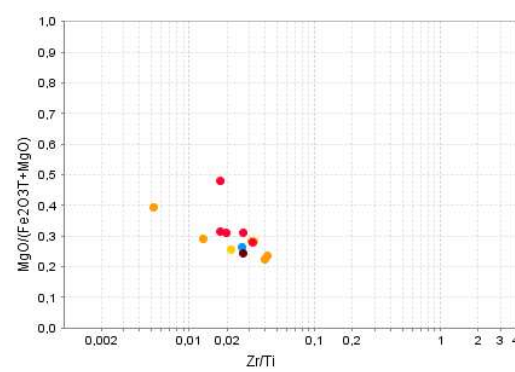
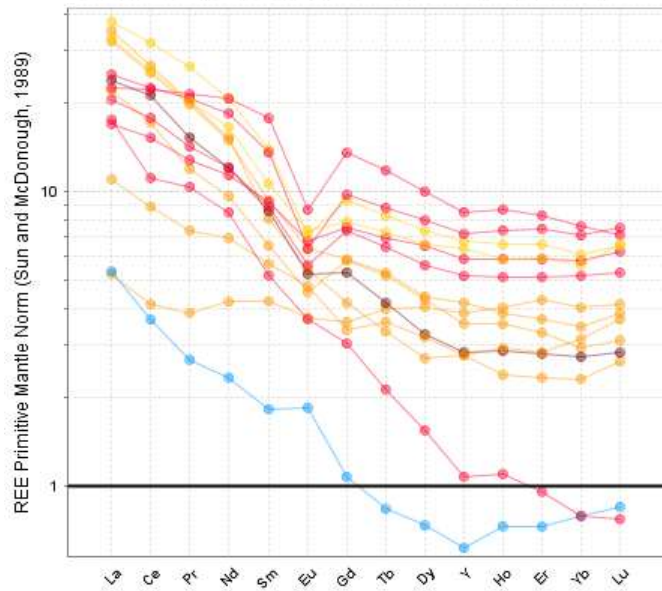
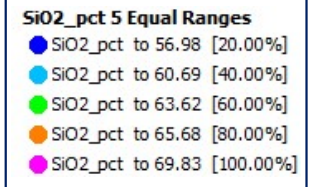
Syenite, carbonatite



- Age U-Pb (tonalite):
★ 2712 ± 1 Ma, 2713.4 ± 2.5 Ma (Mortensen 1993)
- Age U-Pb (granodiorite): ★ 2714.8 ± 0.6 Ma (Augland et al. 2016)
- Age U-Pb (tonalite): ★ 2700 ± 2 Ma (Mortensen 1993)
- Age U-Pb (diorite): ★ 2718.6 ± 5.5 Ma (David 2018)



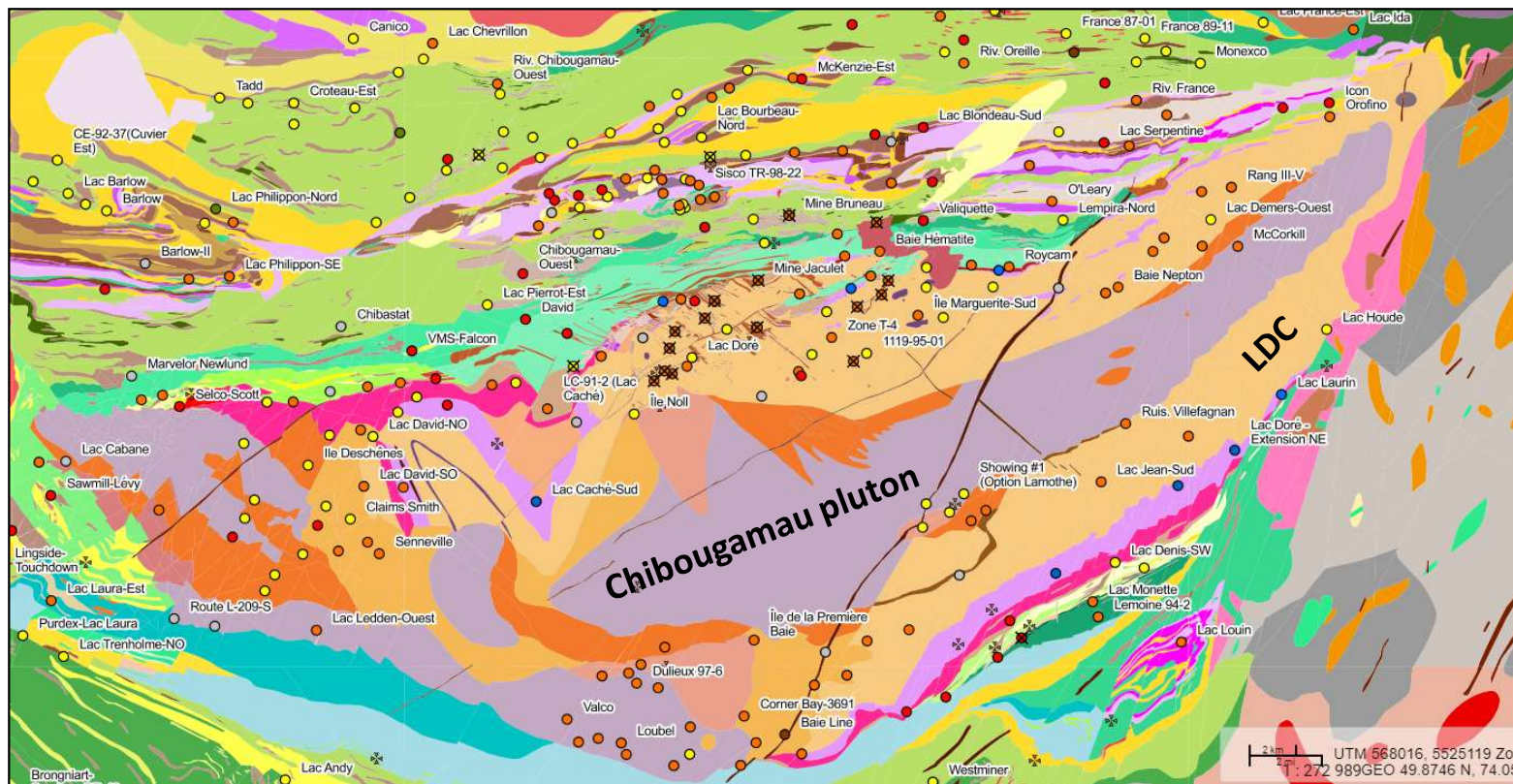
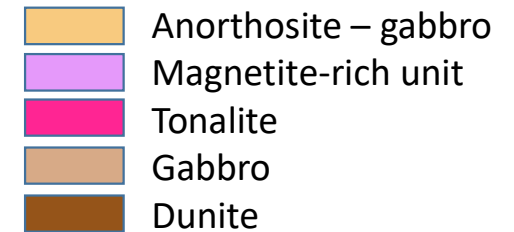
Bourlamaque pluton and Lapparent intrusive suite

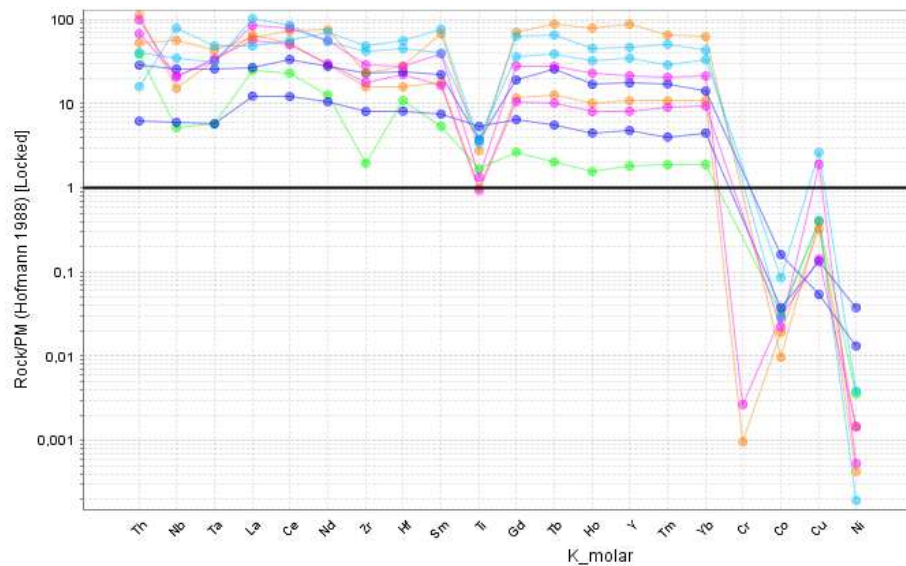
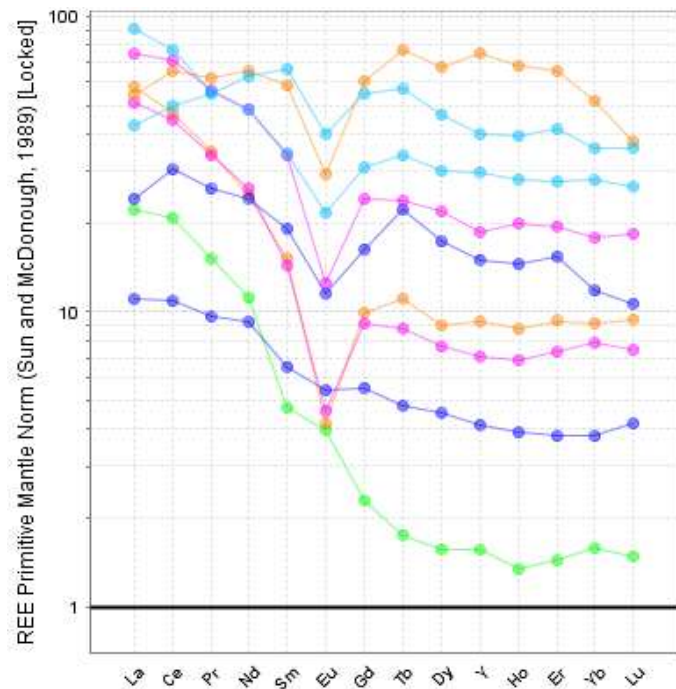


Rock names (field)

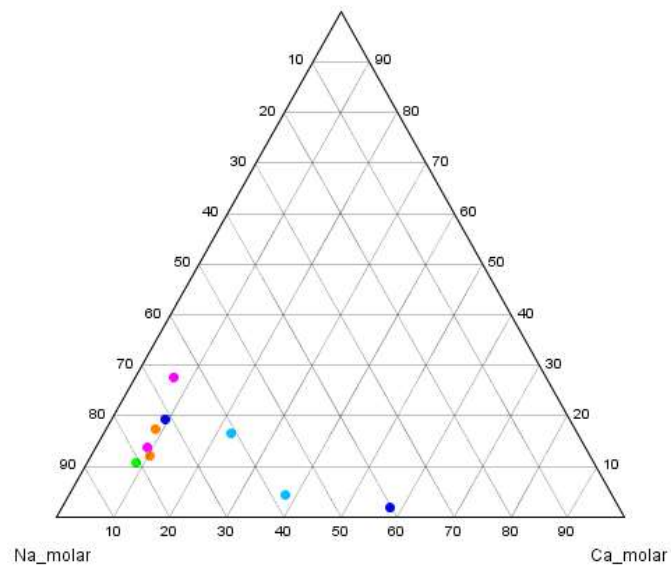
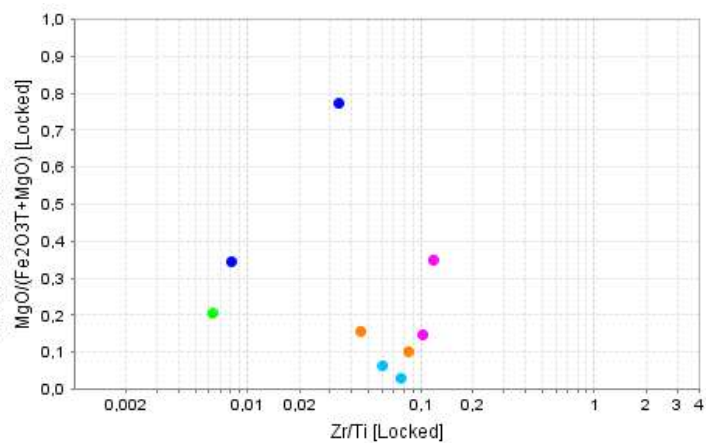
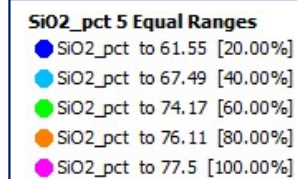


Sodagranophyre of Lac Doré Complex (LDC)





Sodagranophyre (tonalite) of Lac Doré Complex



Rock names (field)

Tonalite

Western Abitibi Subprovince

(OGS dataset)

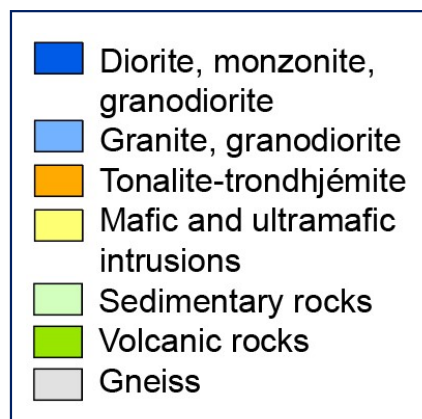
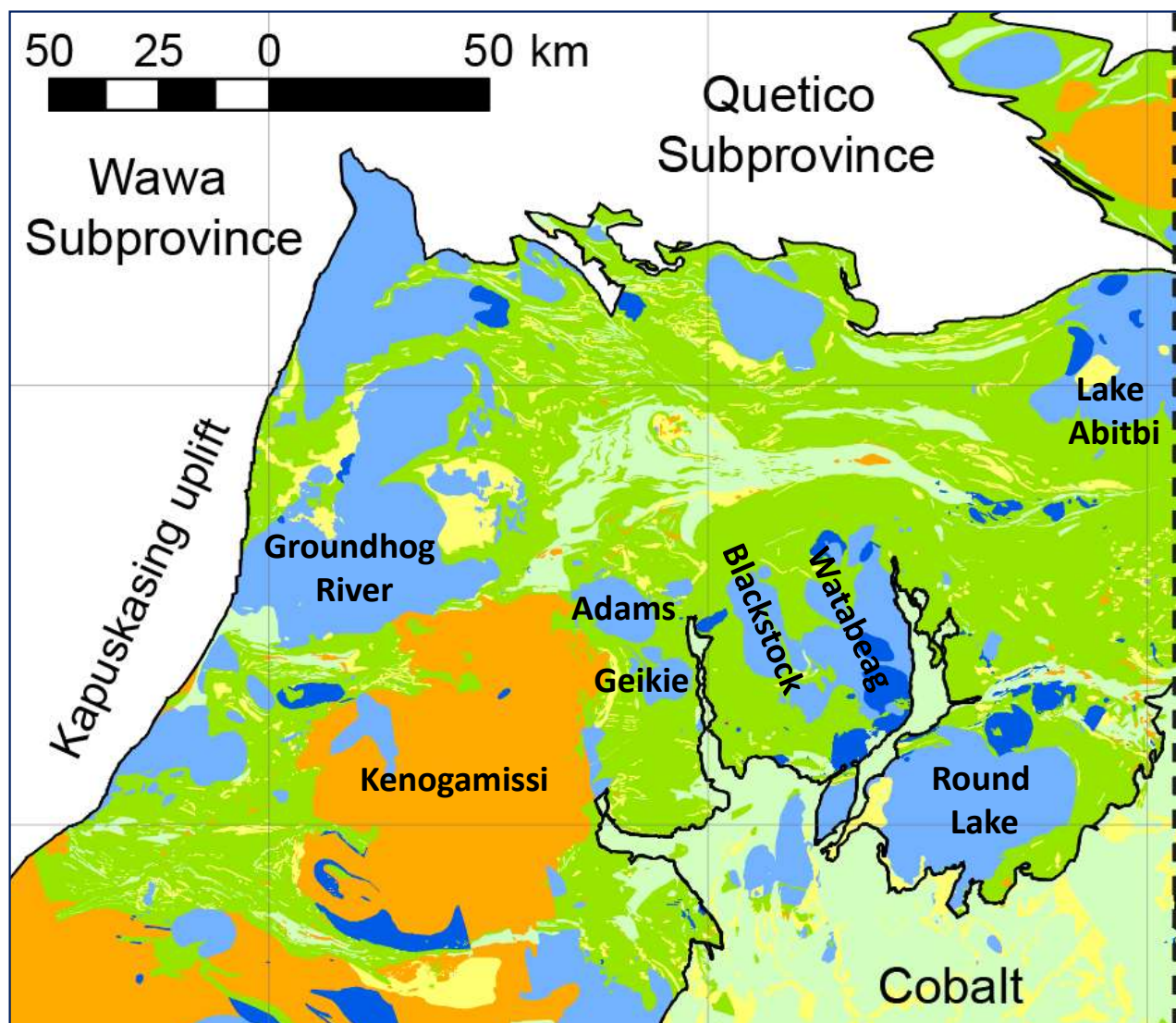
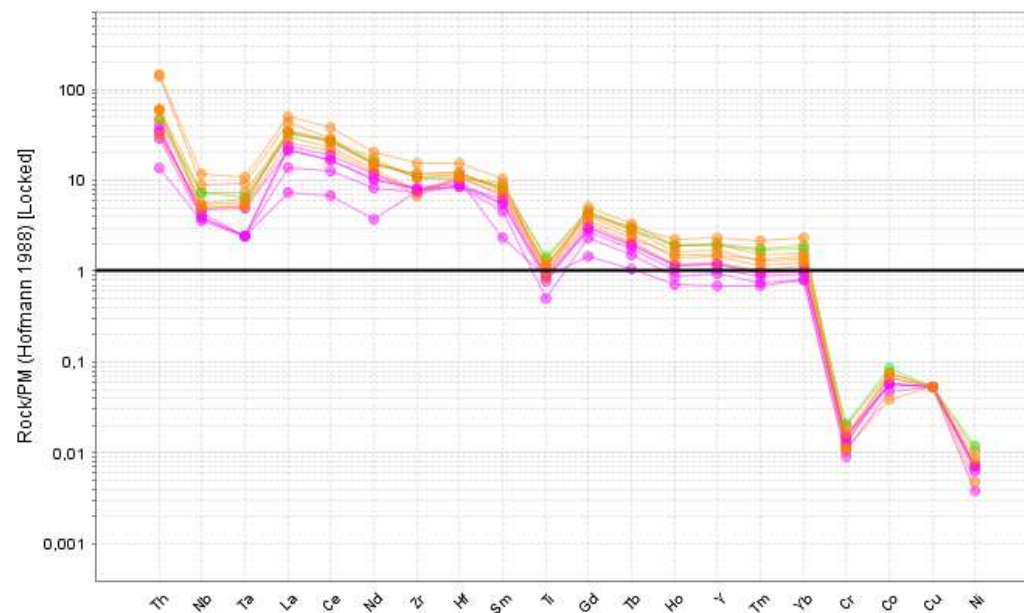
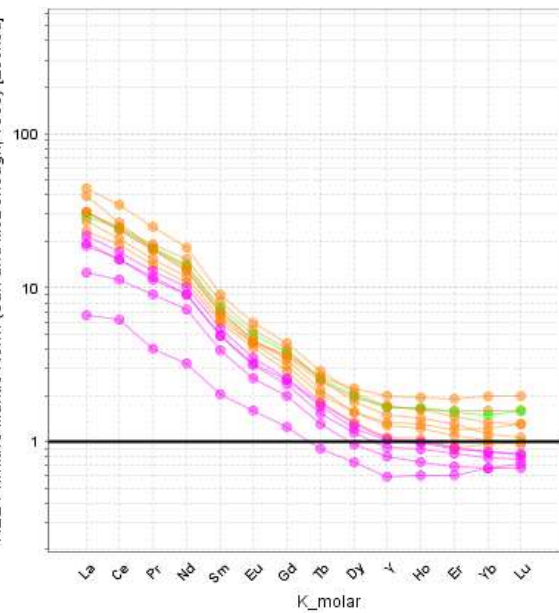


Figure 1 (see manuscript for details)

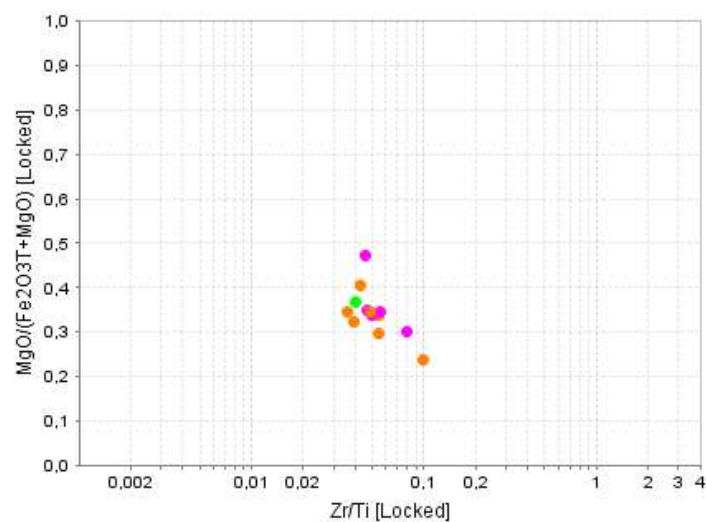
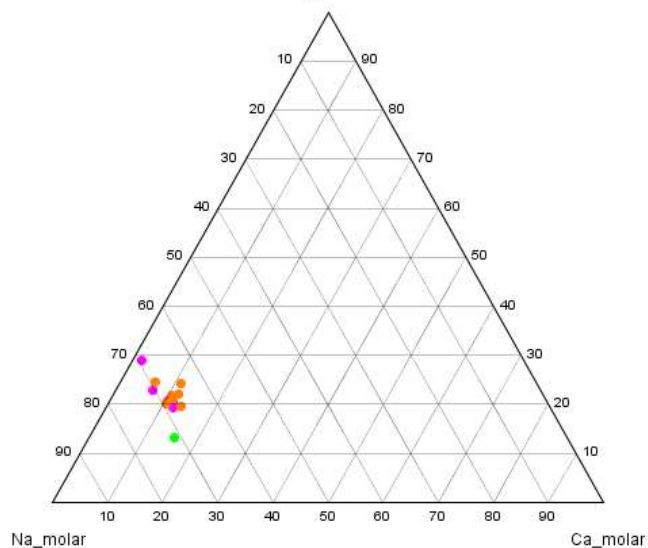


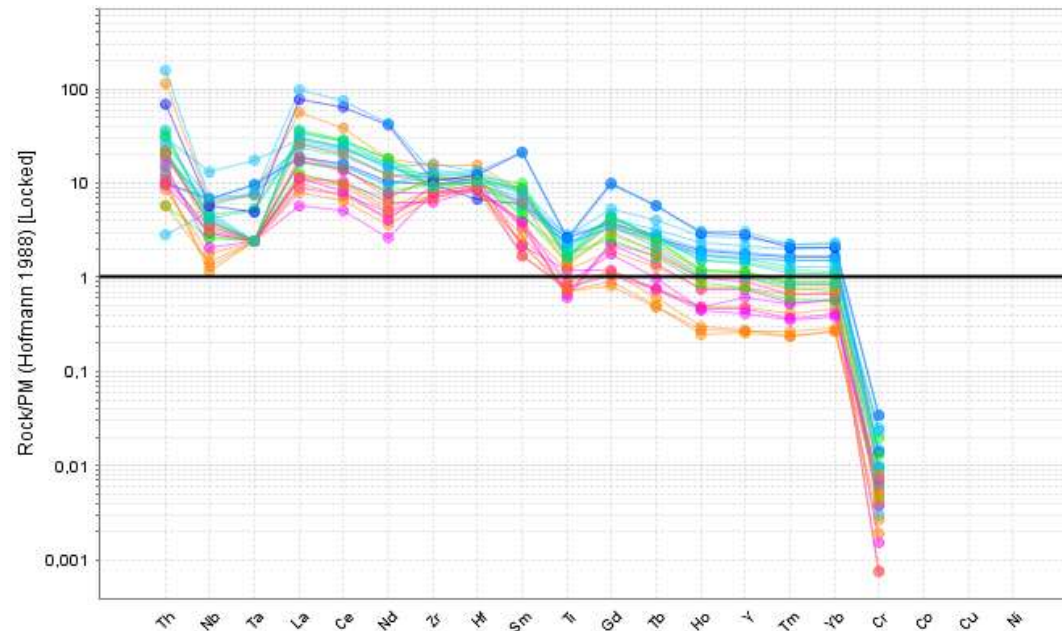
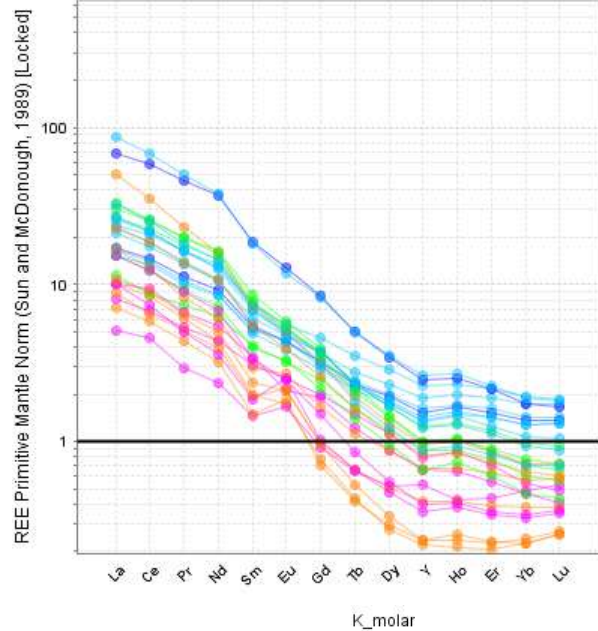
REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



Watabeag batholith

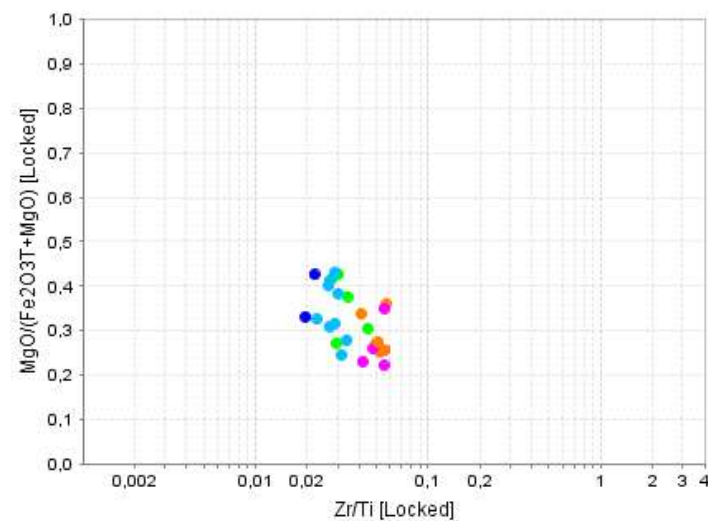
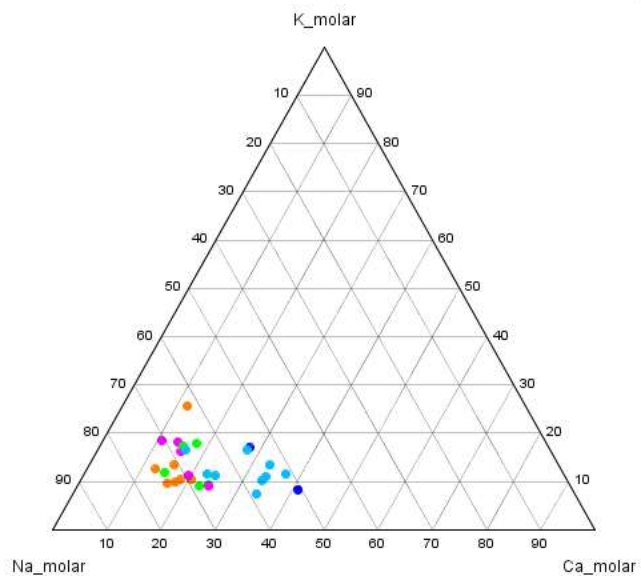
- SiO₂_pct 5 Equal Ranges**
- Default Colour
 - SiO₂_pct to 63.25 [20.00%]
 - SiO₂_pct to 67.5 [40.00%]
 - SiO₂_pct to 69.23 [60.00%]
 - SiO₂_pct to 70.81 [80.00%]
 - SiO₂_pct to 76.9 [100.00%]



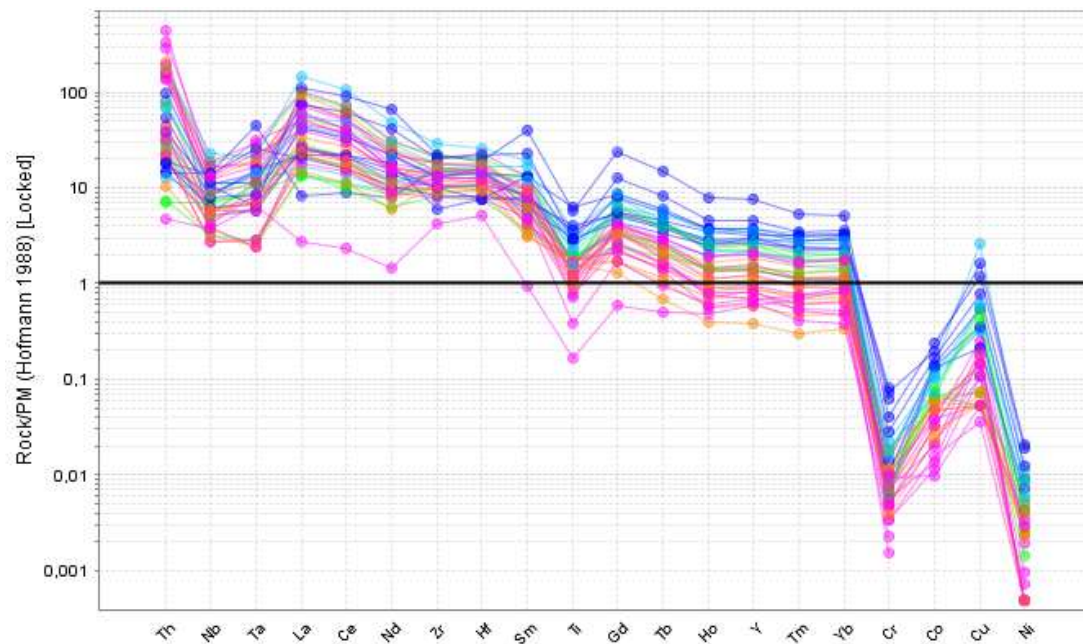
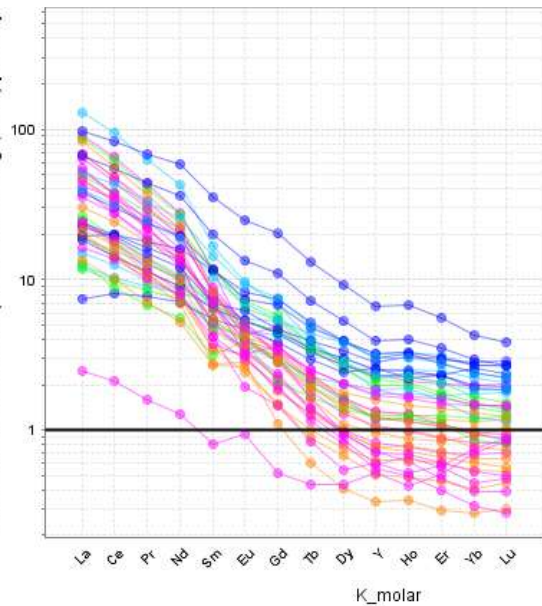


Round Lake batholith

- SiO₂_pct 5 Equal Ranges**
- Default Colour
 - SiO₂_pct to 63.25 [20.00%]
 - SiO₂_pct to 67.5 [40.00%]
 - SiO₂_pct to 69.23 [60.00%]
 - SiO₂_pct to 70.81 [80.00%]
 - SiO₂_pct to 76.9 [100.00%]



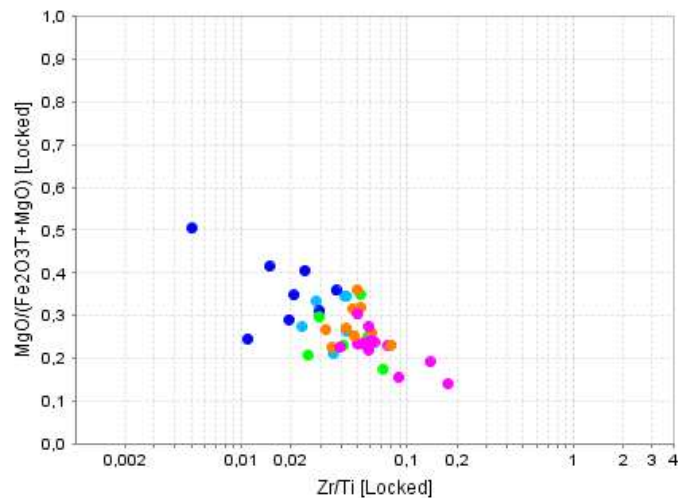
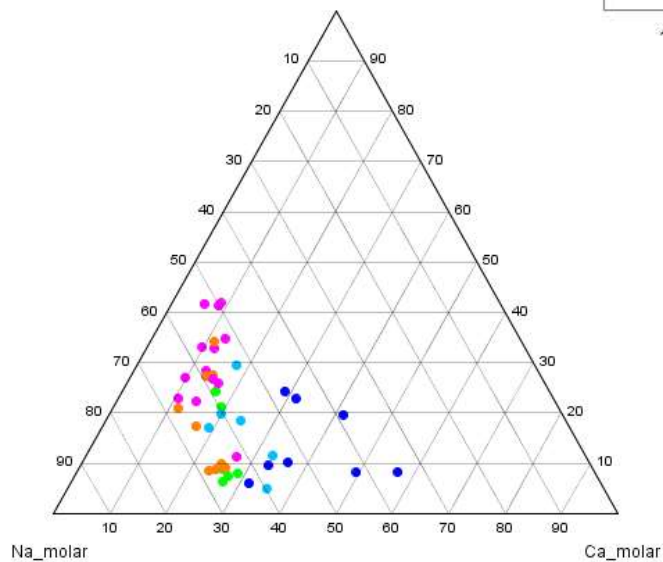
REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



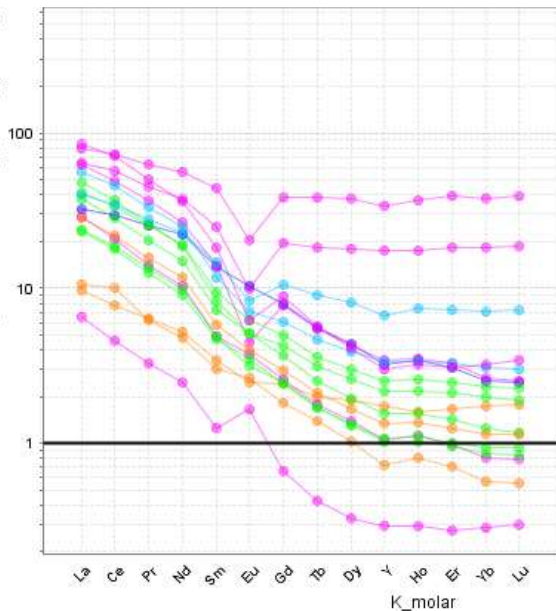
Kenogamissi batholith

SiO₂_pct 5 Equal Ranges

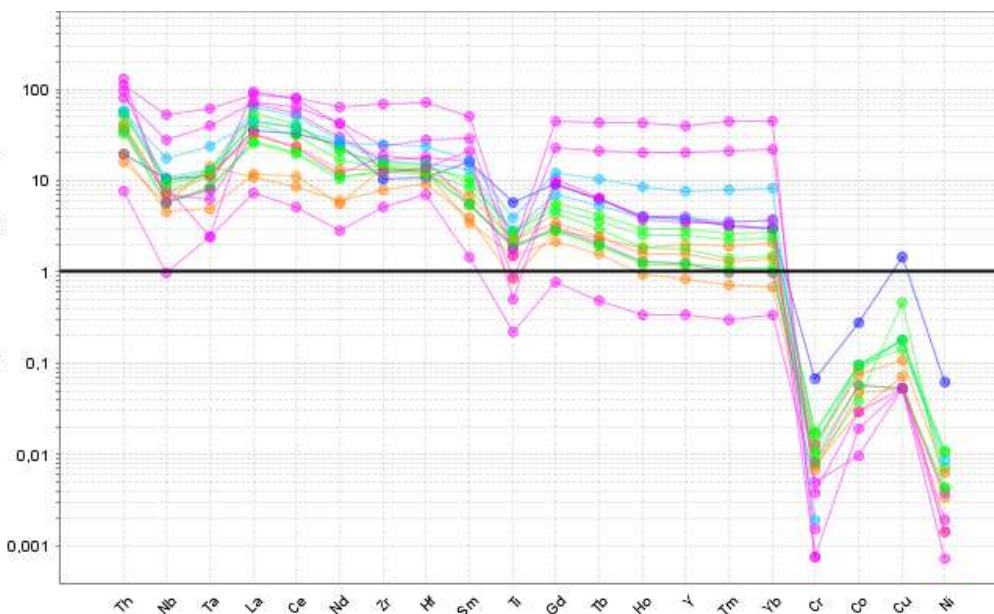
- Default Colour
- SiO₂_pct to 63.25 [20.00%]
- SiO₂_pct to 67.5 [40.00%]
- SiO₂_pct to 69.23 [60.00%]
- SiO₂_pct to 70.81 [80.00%]
- SiO₂_pct to 76.9 [100.00%]



REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



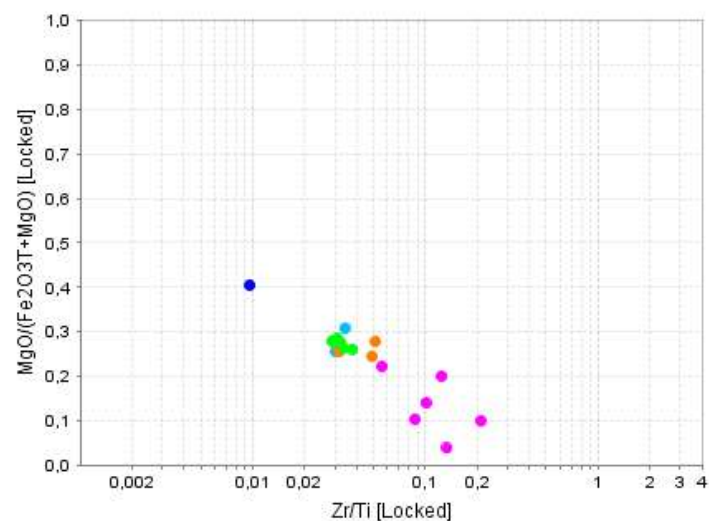
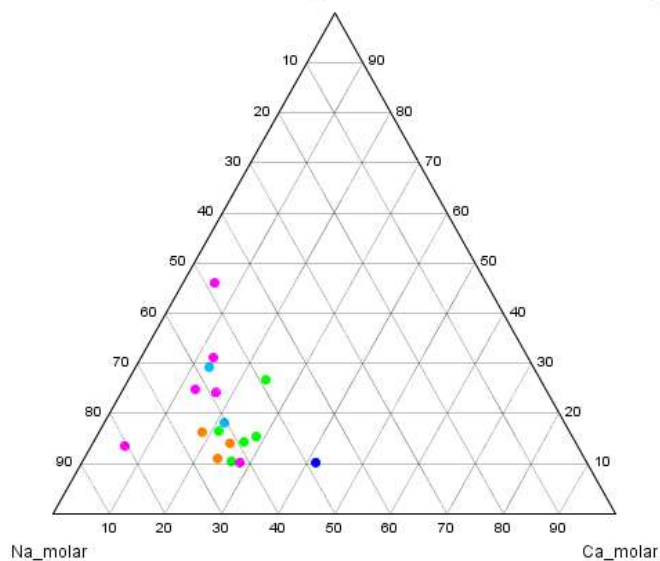
Rock/PM (Hofmann 1988) [Locked]



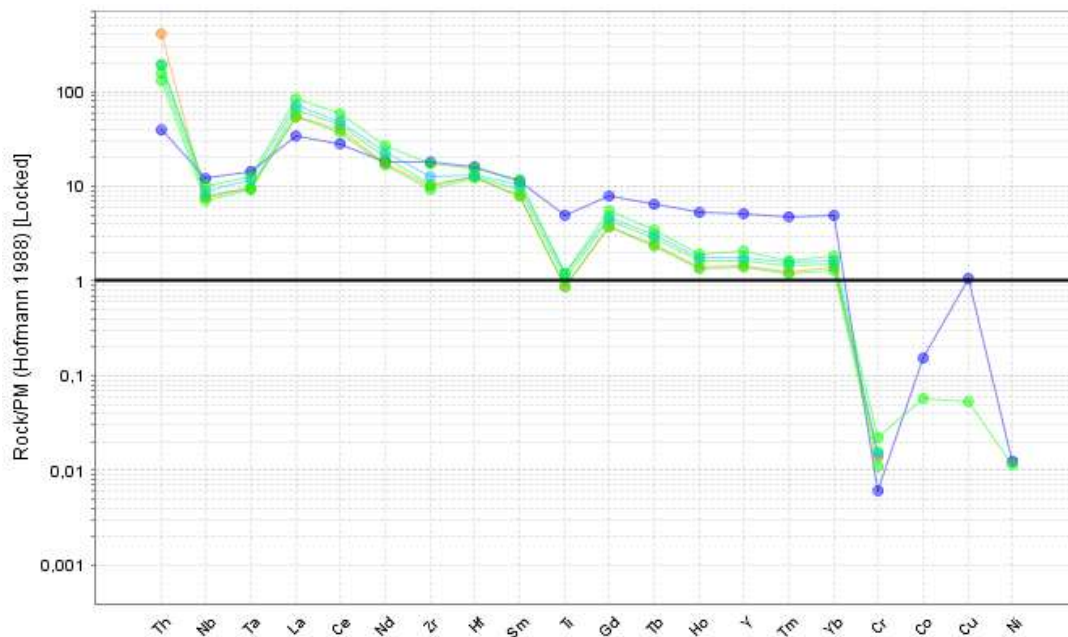
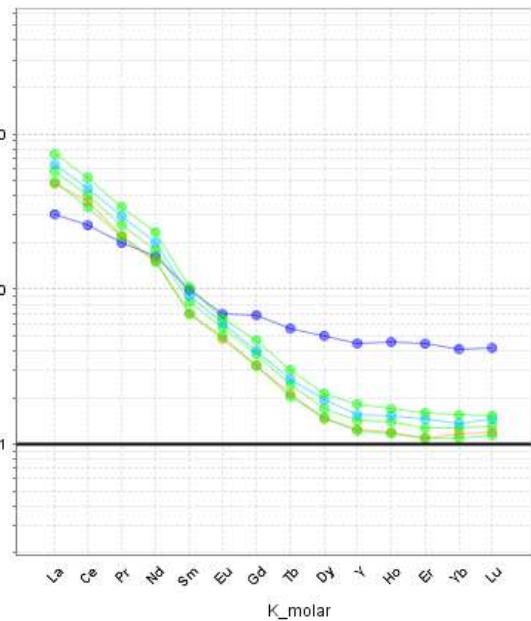
Groundhog River batholith

SiO₂_pct 5 Equal Ranges

- Default Colour
- SiO₂_pct to 63.25 [20.00%]
- SiO₂_pct to 67.5 [40.00%]
- SiO₂_pct to 69.23 [60.00%]
- SiO₂_pct to 70.81 [80.00%]
- SiO₂_pct to 76.9 [100.00%]



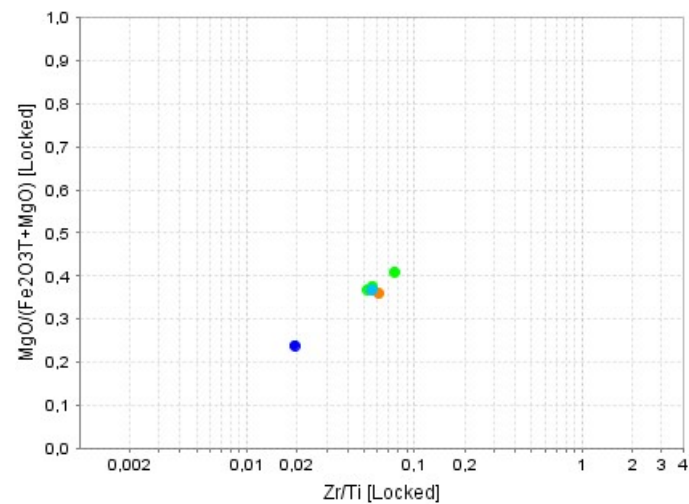
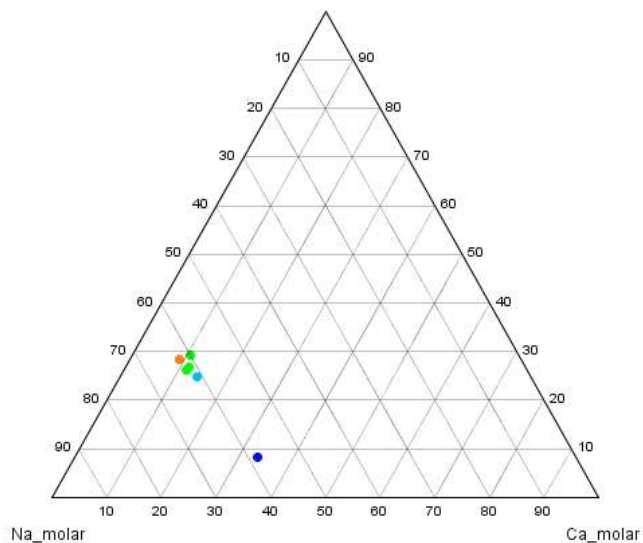
REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



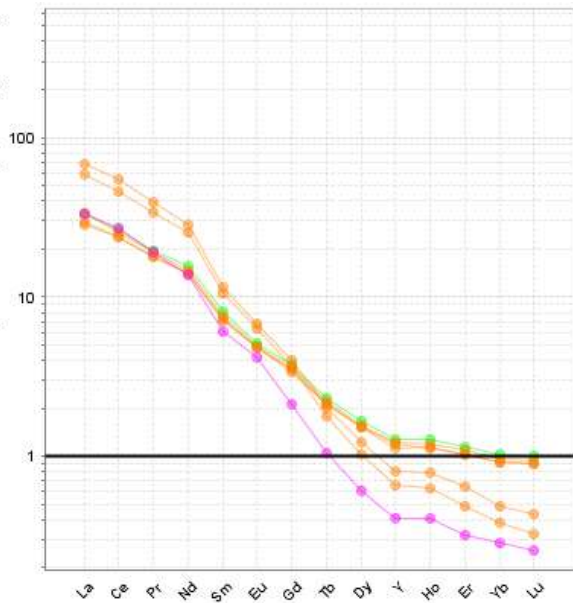
Geikie
pluton

SiO₂_pct 5 Equal Ranges

- Default Colour
- SiO₂_pct to 63.25 [20.00%]
- SiO₂_pct to 67.5 [40.00%]
- SiO₂_pct to 69.23 [60.00%]
- SiO₂_pct to 70.81 [80.00%]
- SiO₂_pct to 76.9 [100.00%]



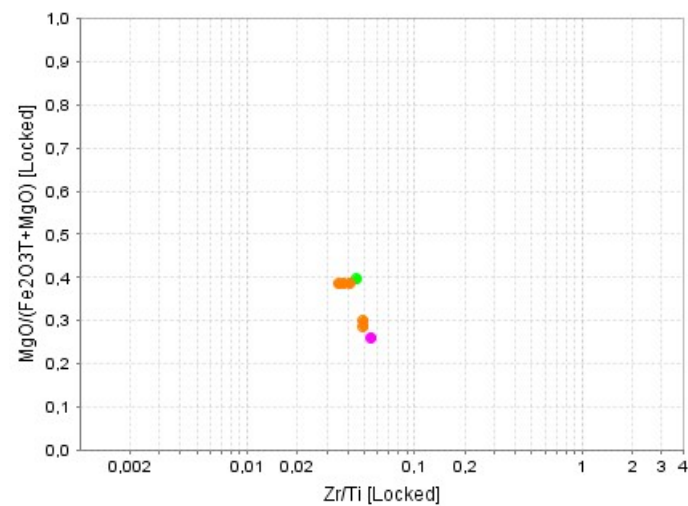
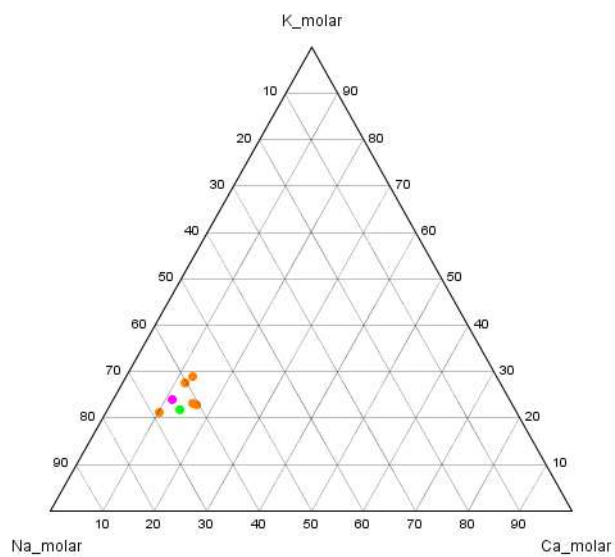
REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



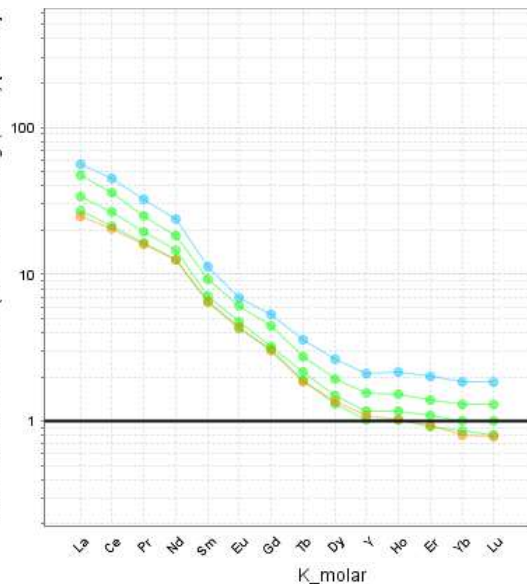
Blackstock pluton

SiO₂_pct 5 Equal Ranges

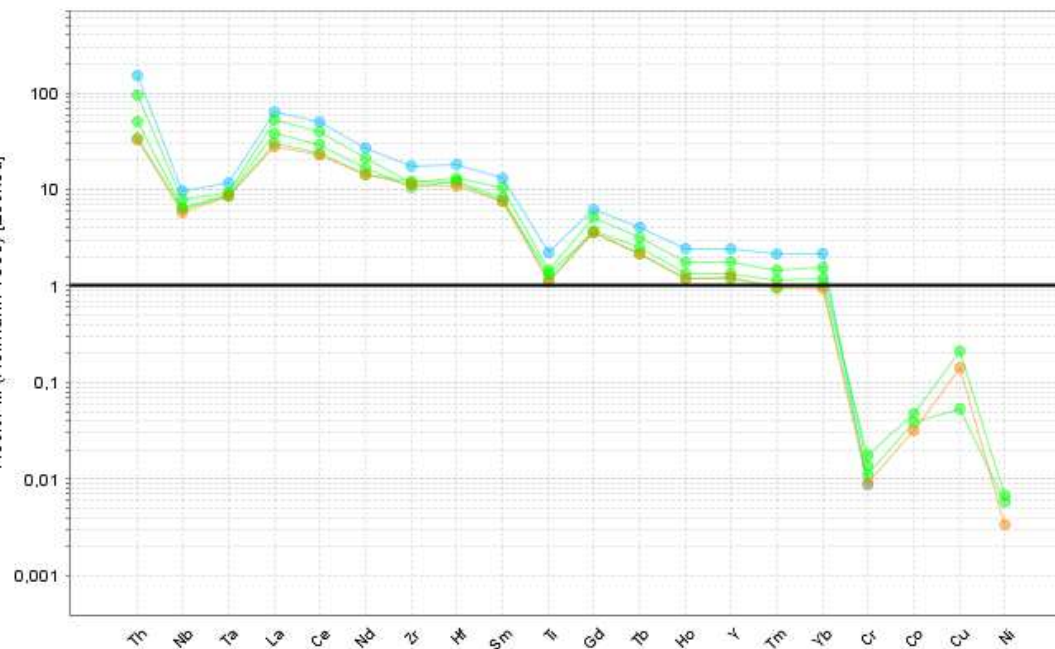
- Default Colour
- SiO₂_pct to 63.25 [20.00%]
- SiO₂_pct to 67.5 [40.00%]
- SiO₂_pct to 69.23 [60.00%]
- SiO₂_pct to 70.81 [80.00%]
- SiO₂_pct to 76.9 [100.00%]



REE Primitive Mantle Norm (Sun and McDonough, 1989) [Locked]



Rock/PM (Hofmann 1988) [Locked]



Adams pluton

SiO₂_pct 5 Equal Ranges

- Default Colour
- SiO₂_pct to 63.25 [20.00%]
- SiO₂_pct to 67.5 [40.00%]
- SiO₂_pct to 69.23 [60.00%]
- SiO₂_pct to 70.81 [80.00%]
- SiO₂_pct to 76.9 [100.00%]

