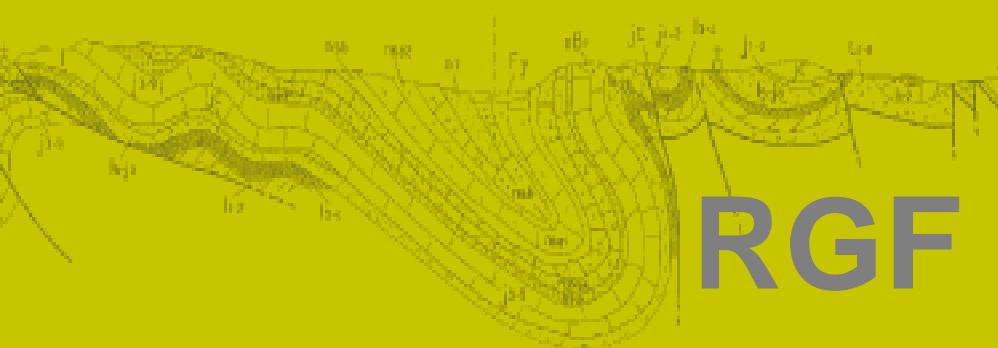
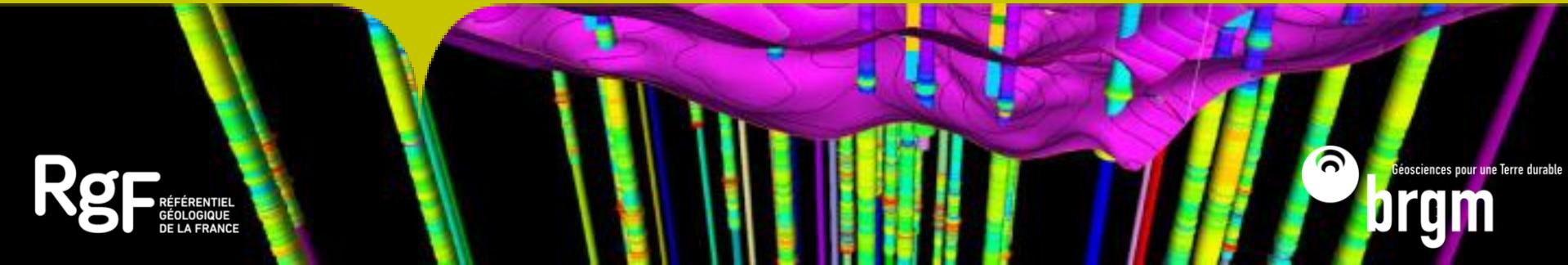




Journées RGF 22-23 mars 2017



RGF Chantier Pyrénées



Origine et développement de la thermicité dans les Pyrénées varisques, conséquences sur l'évolution du segment ouest-européen de l'orogène

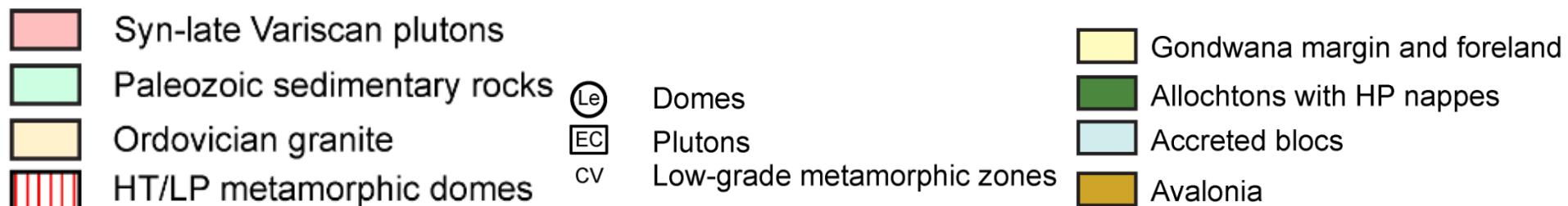
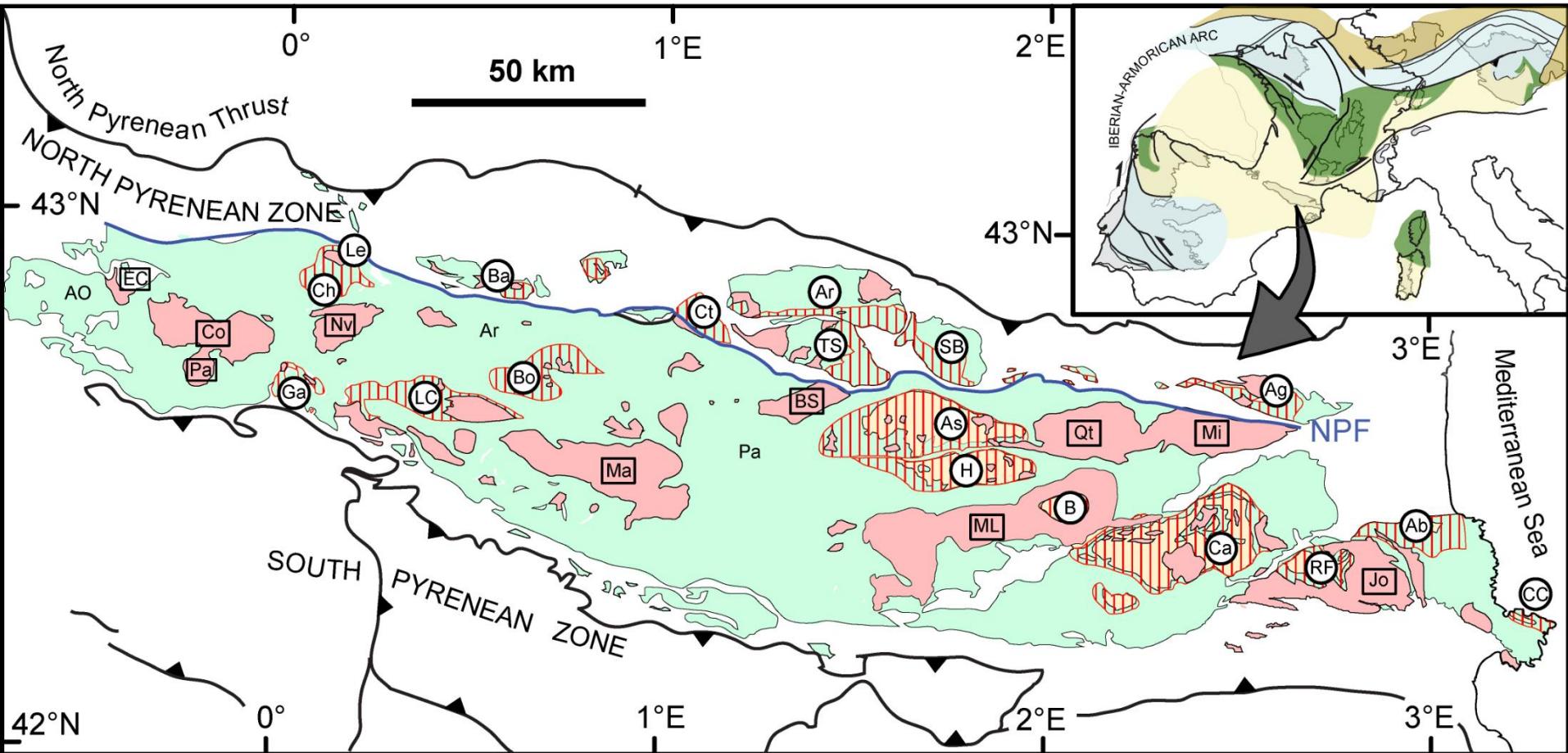
Baptiste Lemirre

Encadrants : Michel de Saint Blanquat, Stéphanie Duchene

Géosciences Environnement Toulouse (GET) – Observatoire Midi-Pyrénées, IRD, CNRS, UPS



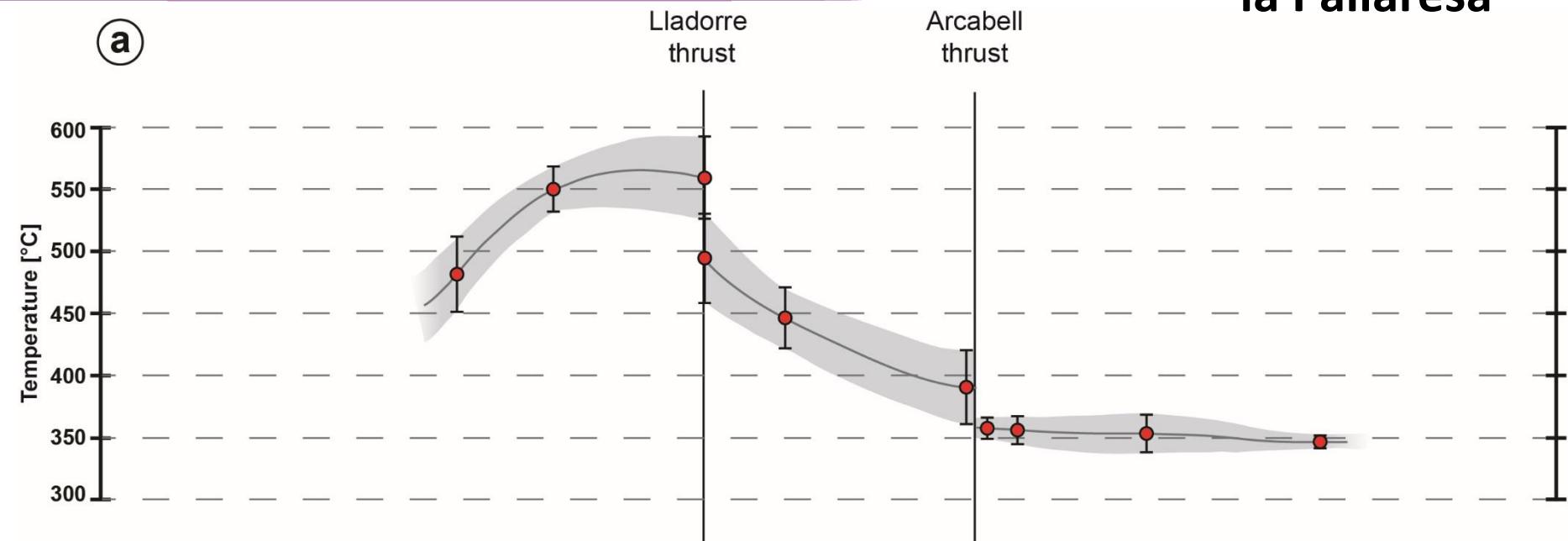
Les Pyrénées varisques



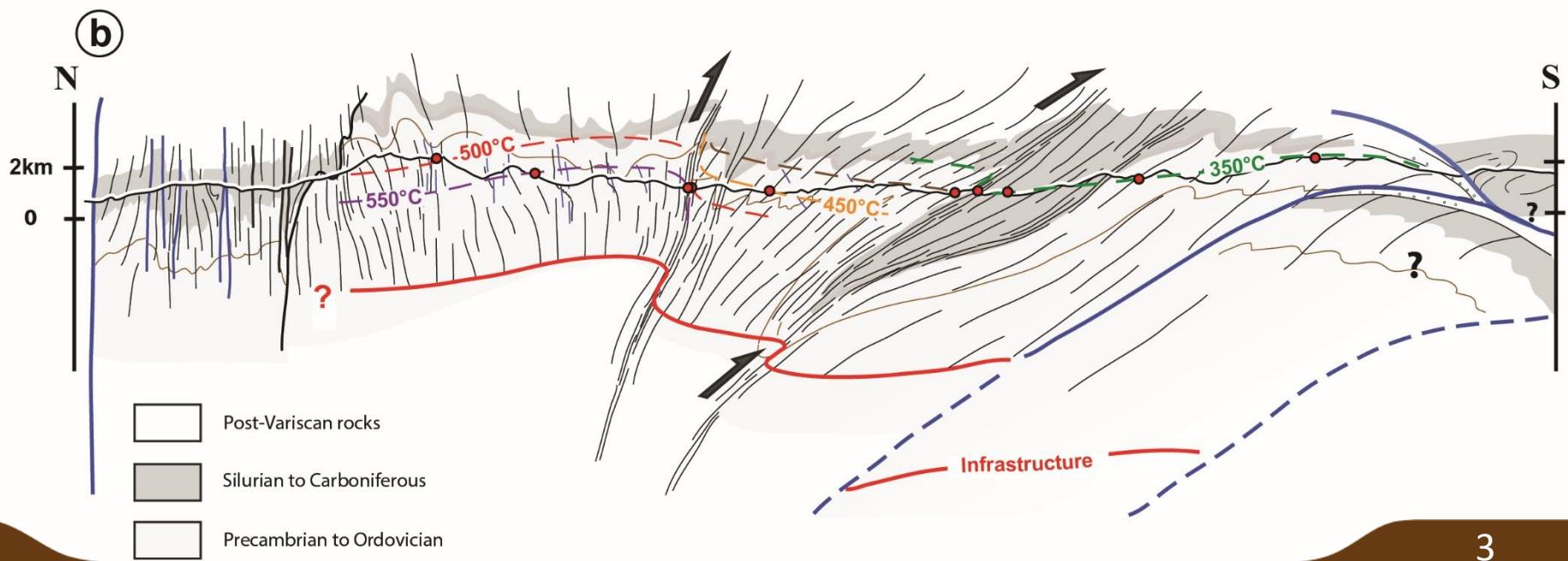
Etat thermique de la superstructure

la Pallaresa

a



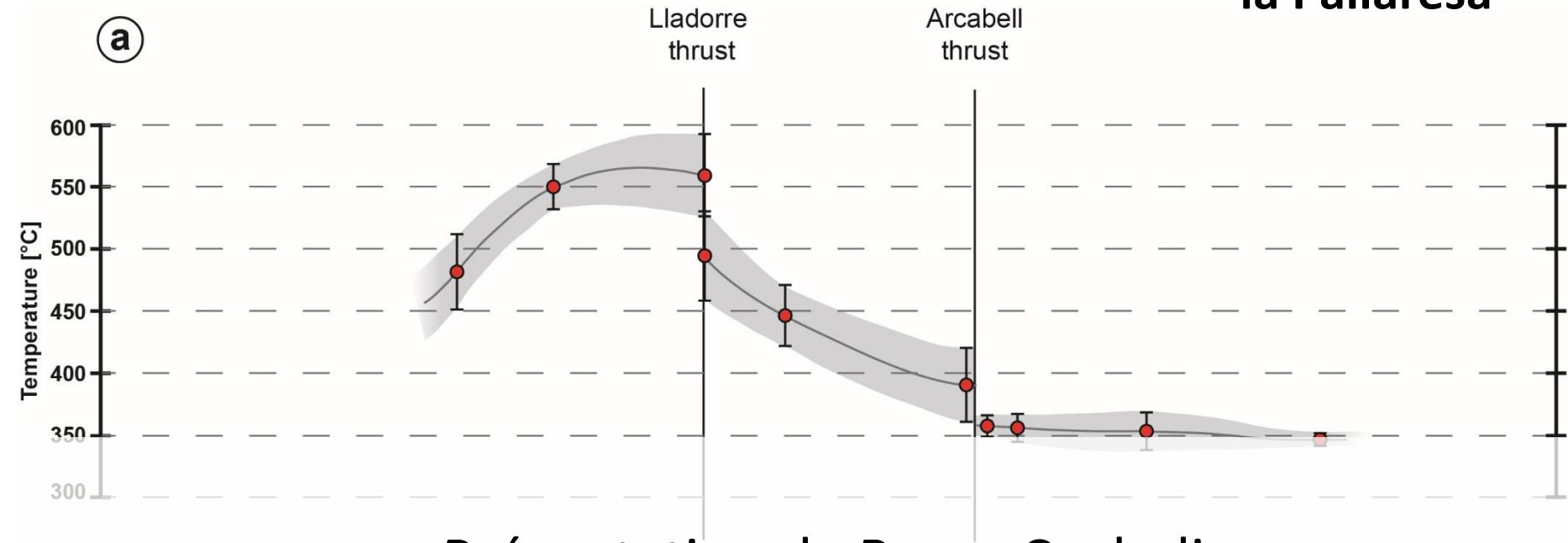
b



Etat thermique de la superstructure

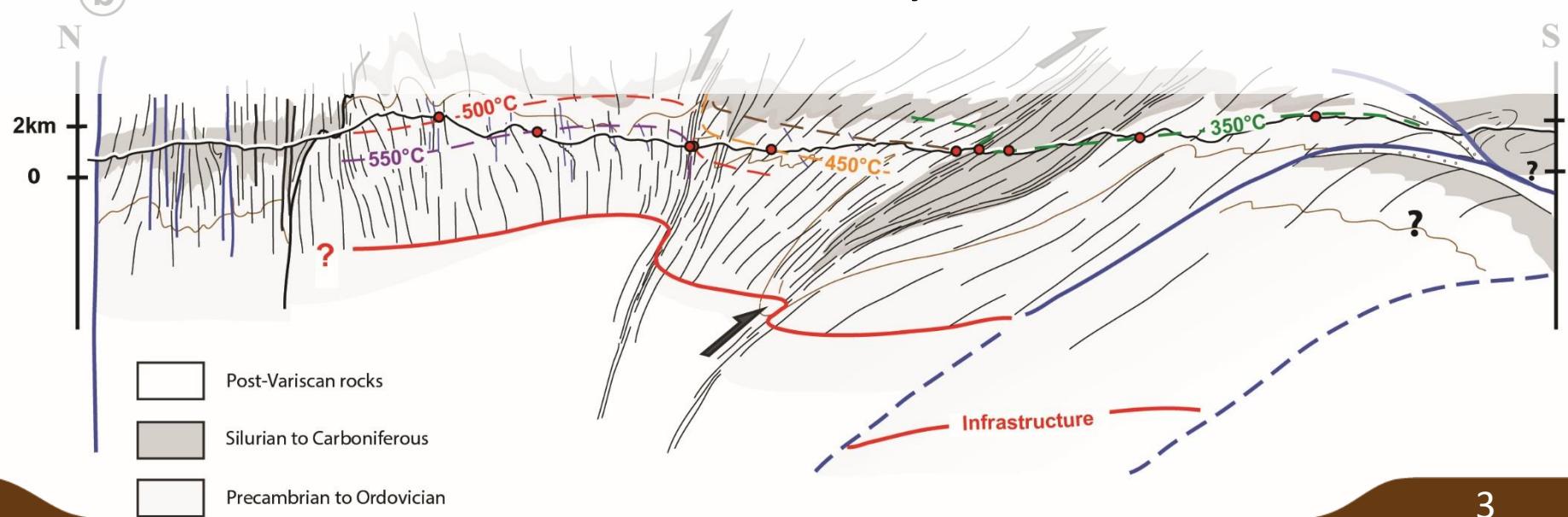
la Pallaresa

a

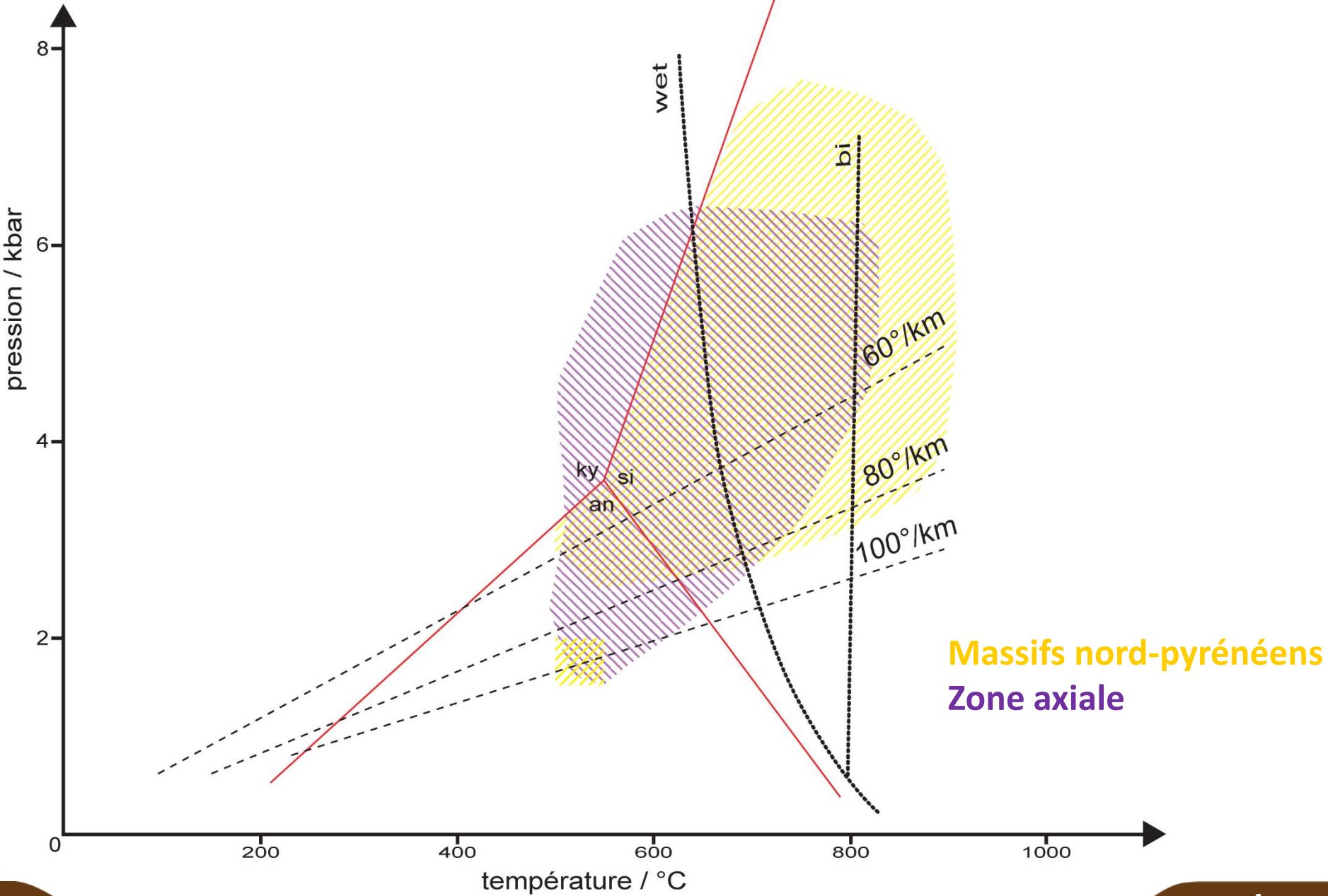


⇒ Présentation de Bryan Cochelin

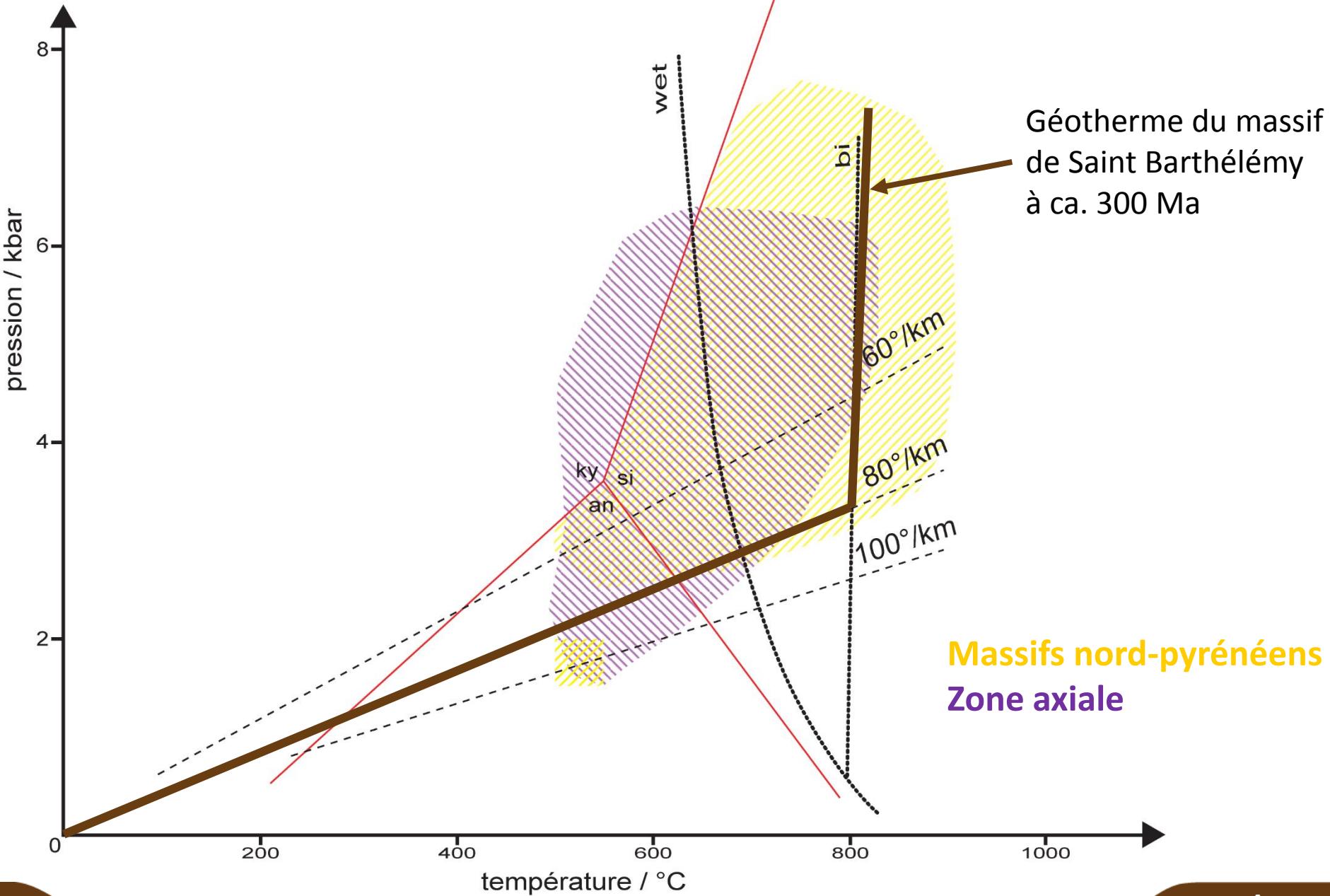
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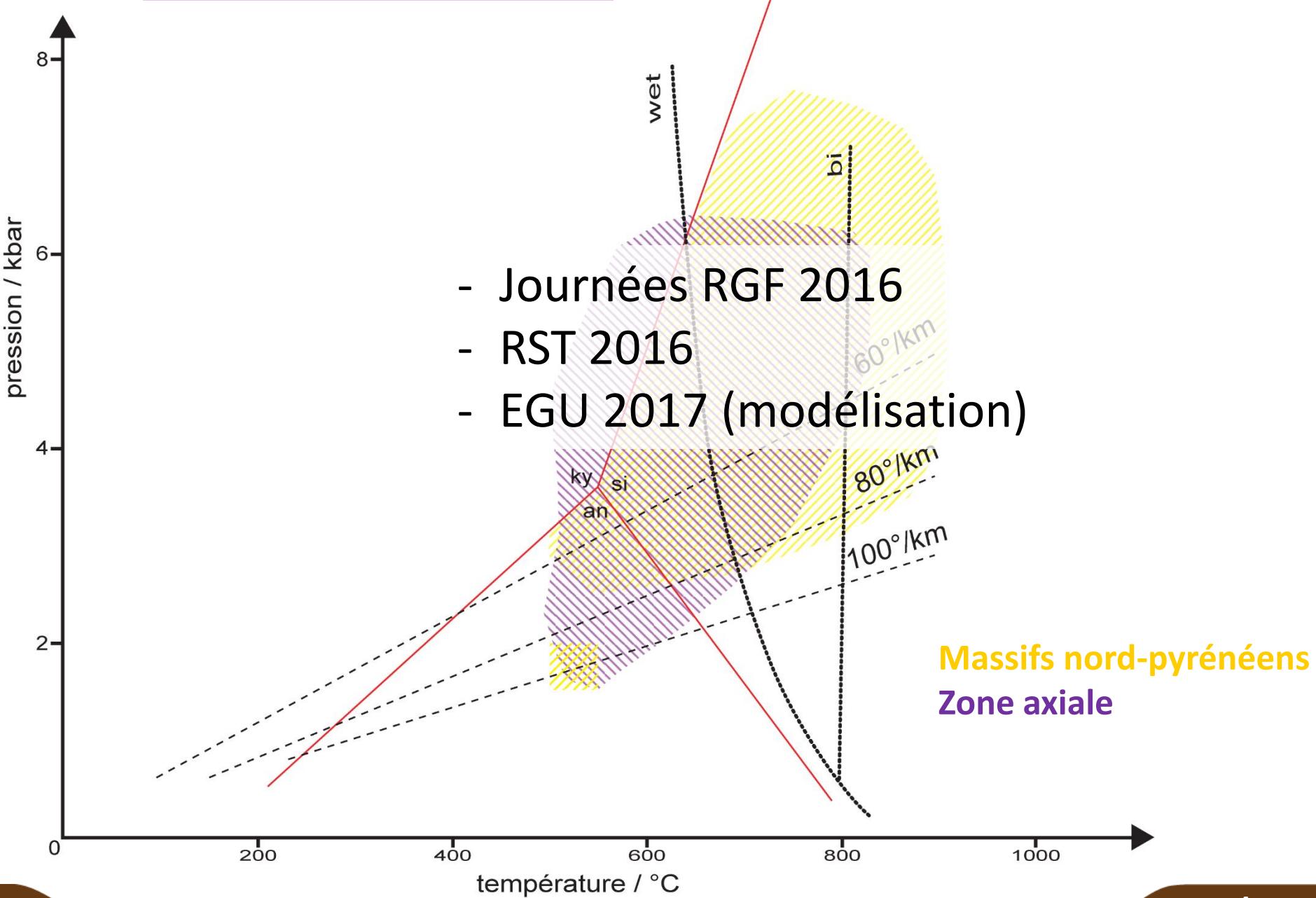
Le métamorphisme HT – BP



Le métamorphisme HT – BP



Le métamorphisme HT – BP



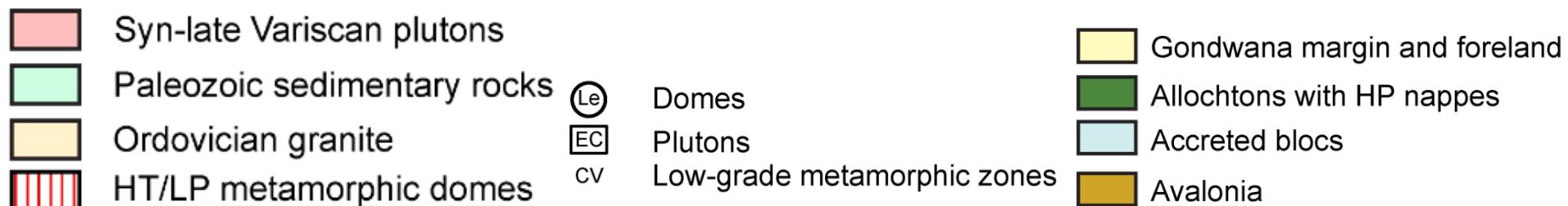
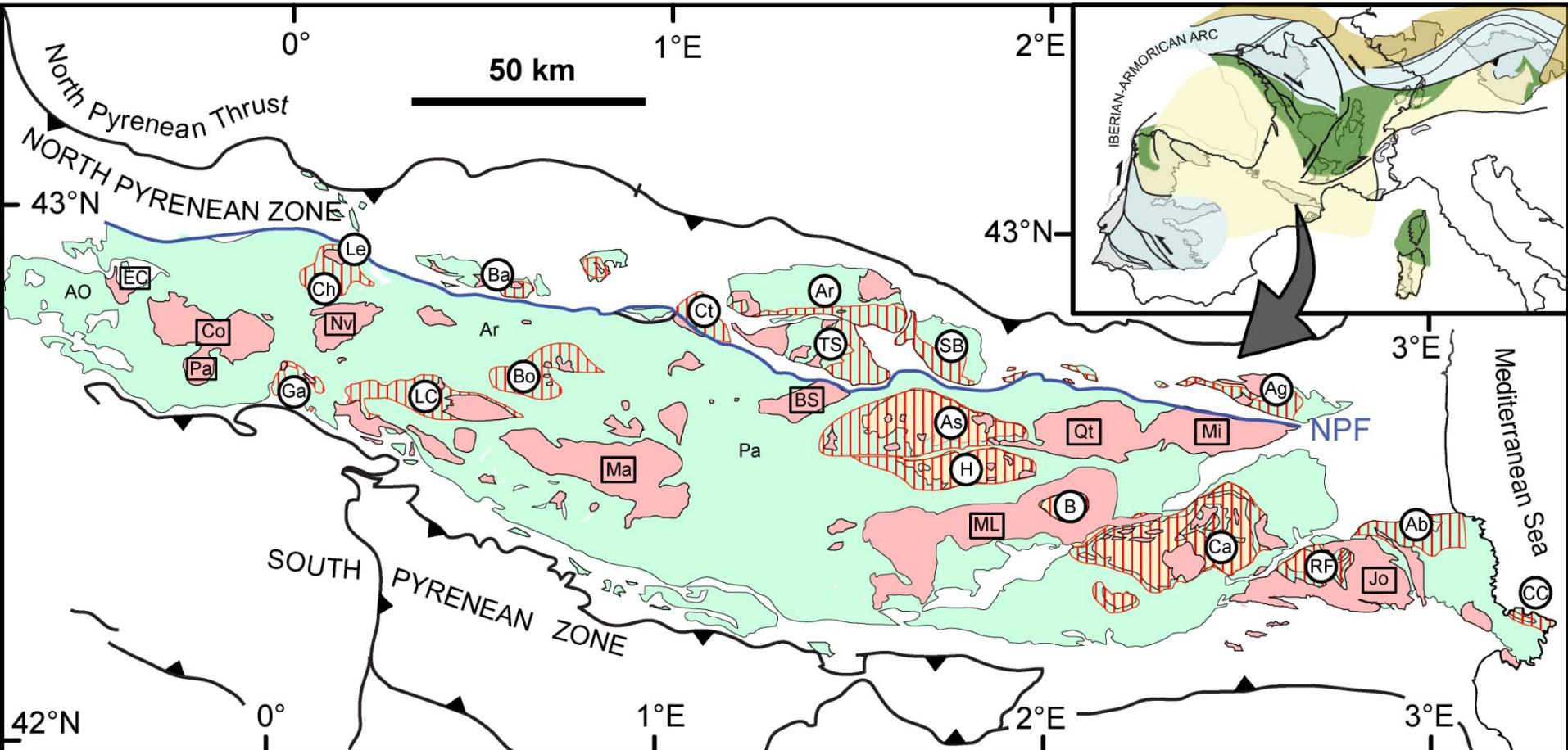
Le magmatisme varisque dans les Pyrénées, exemple du massif du Chiroulet-Lesponne

*Baptiste Lemirre, Bryan Cochelin,
Michel de Saint Blanquat, Stéphanie Duchene, Marc Poujol*

Géosciences Environnement Toulouse (GET) – Observatoire Midi-Pyrénées, IRD, CNRS, UPS

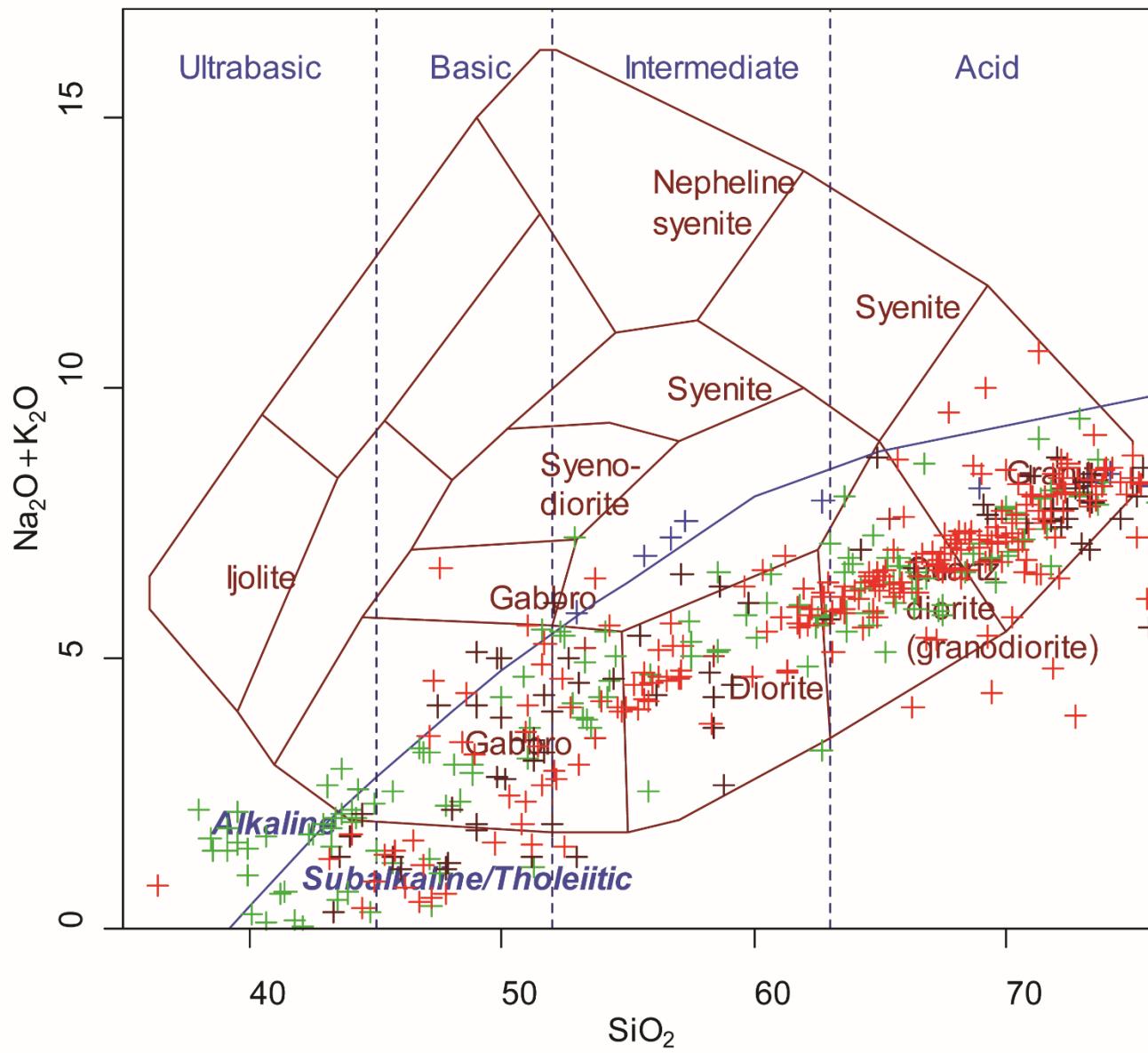


Les Pyrénées varisques



Modifié d'après Cochelin 2016

Magmatisme varisque

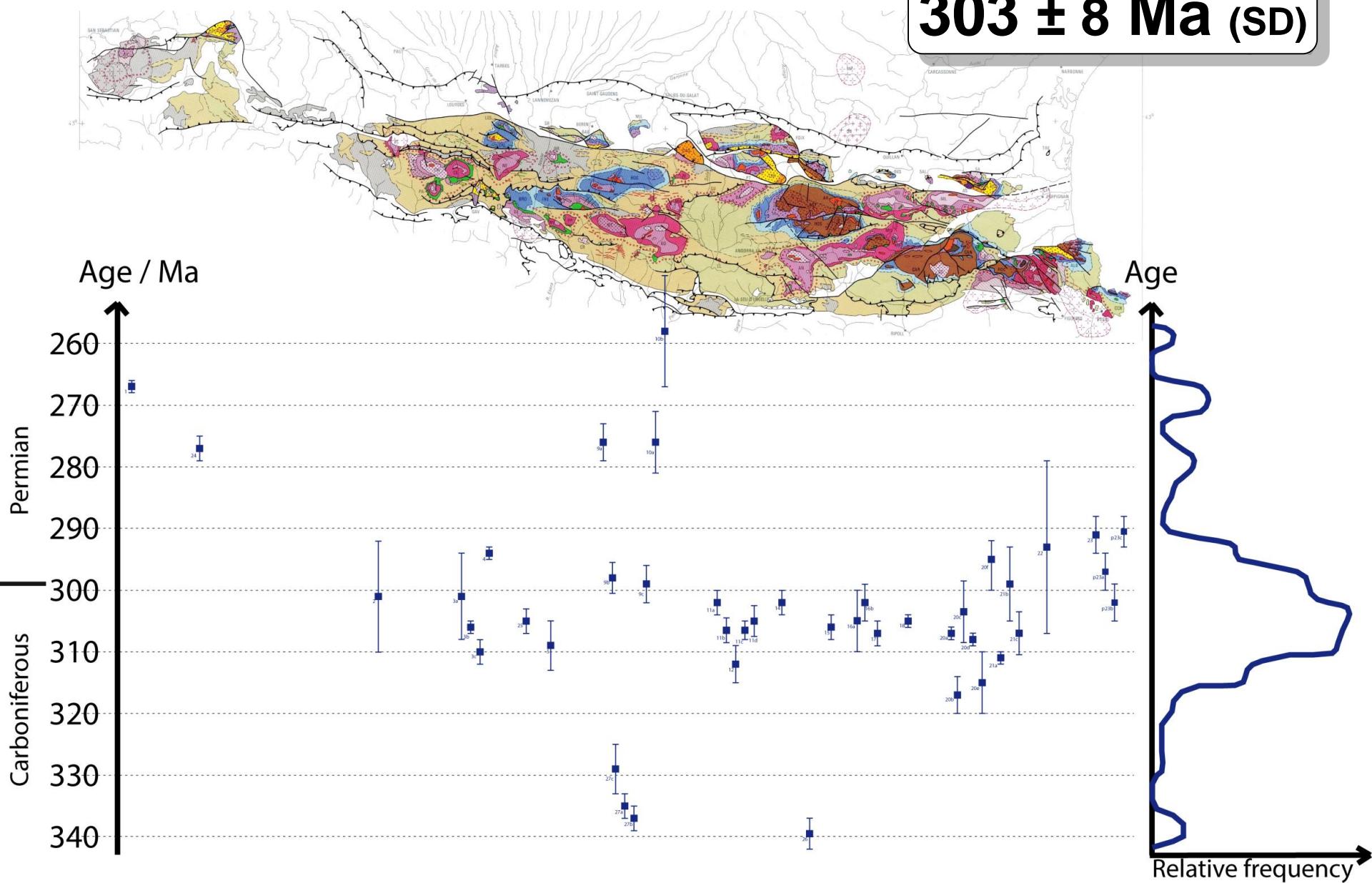


+ Massif Nord-Pyrénén

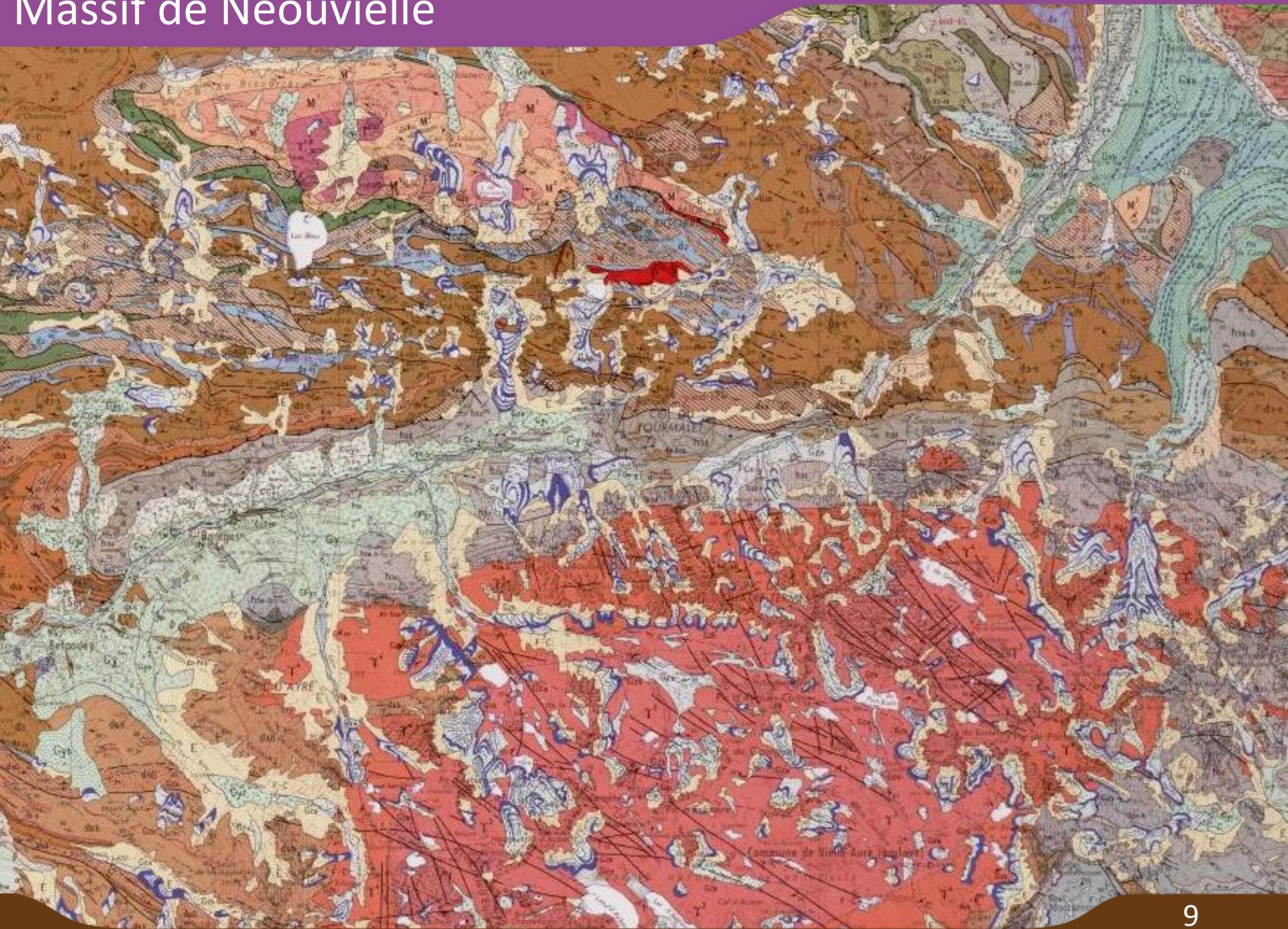
+ Zone Axiale

Magmatisme varisque

303 ± 8 Ma (SD)



Massif de Néouvielle

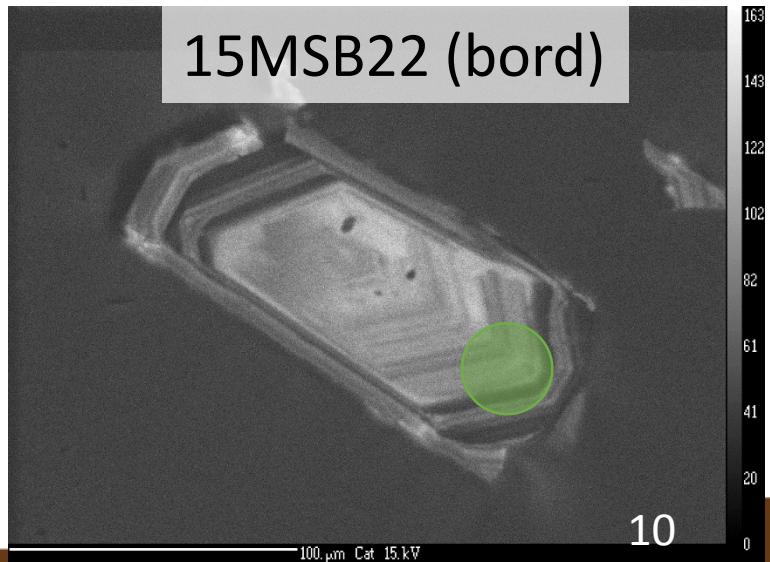
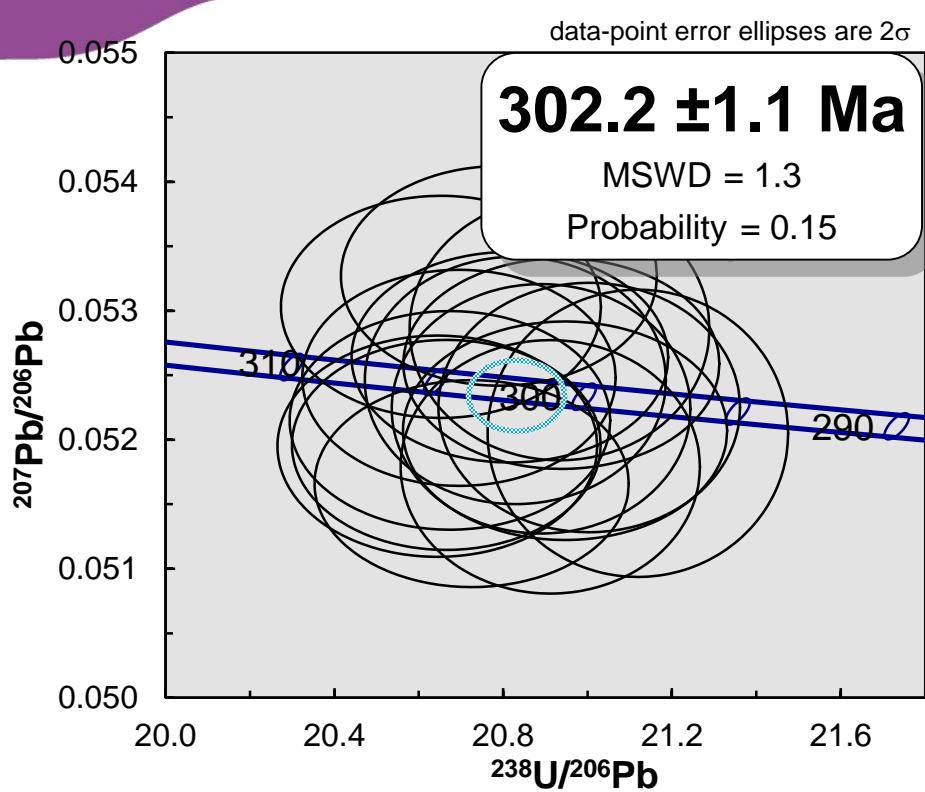
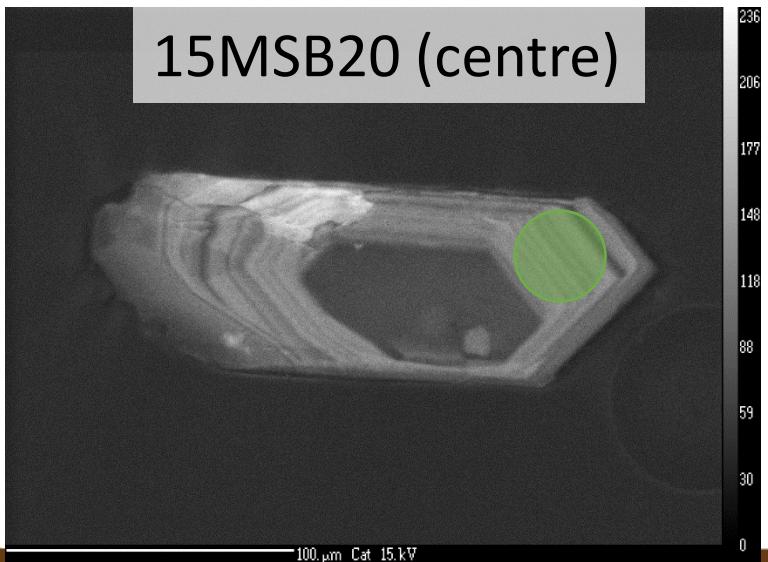
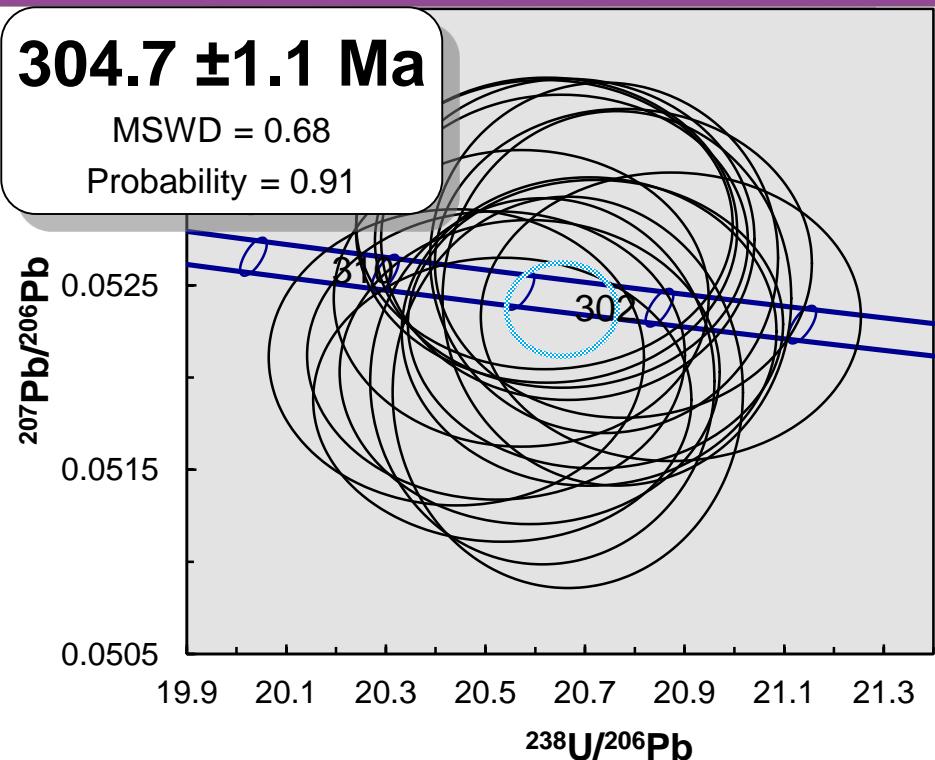


Massif de Néouvielle

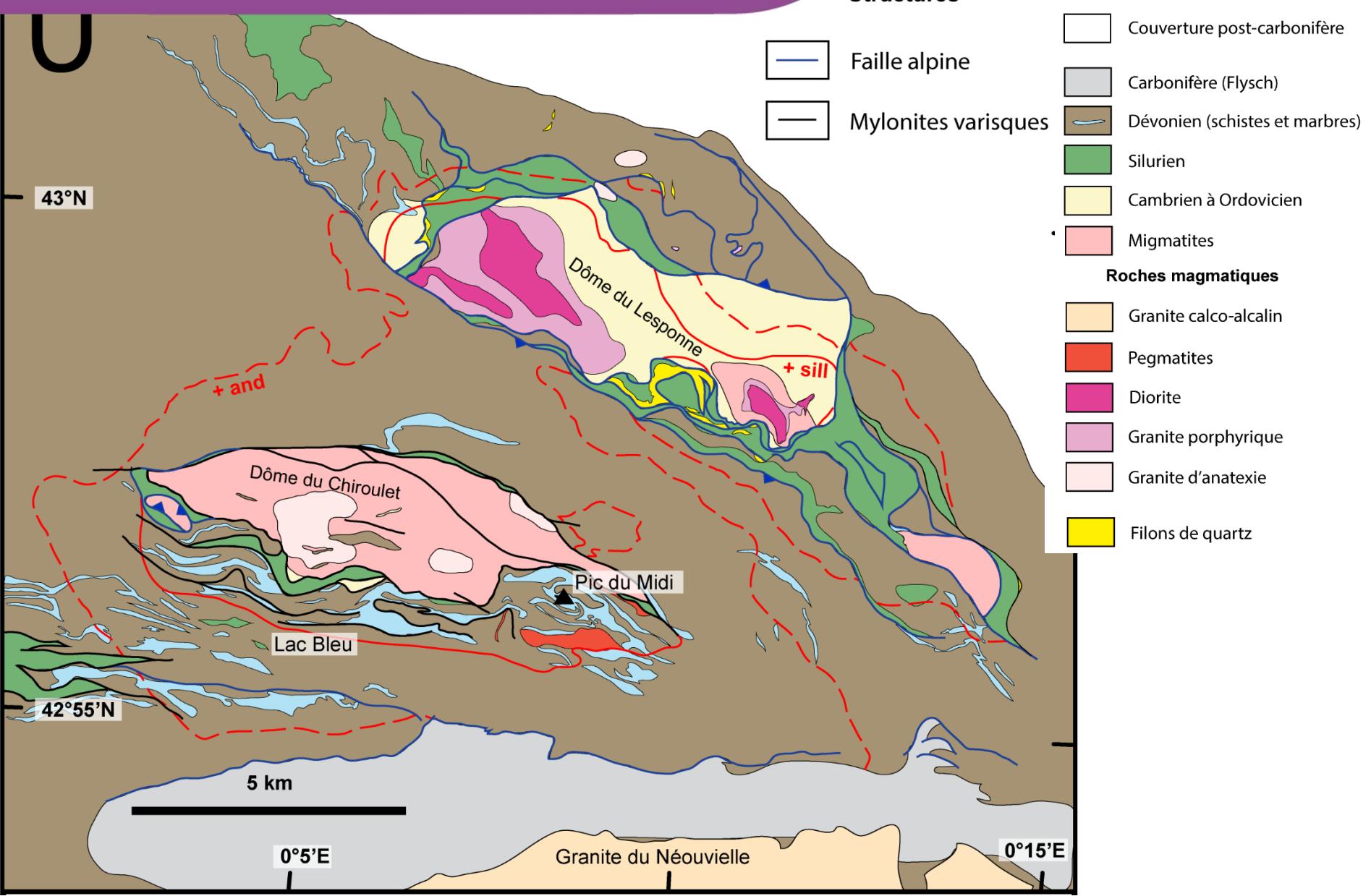
304.7 ±1.1 Ma

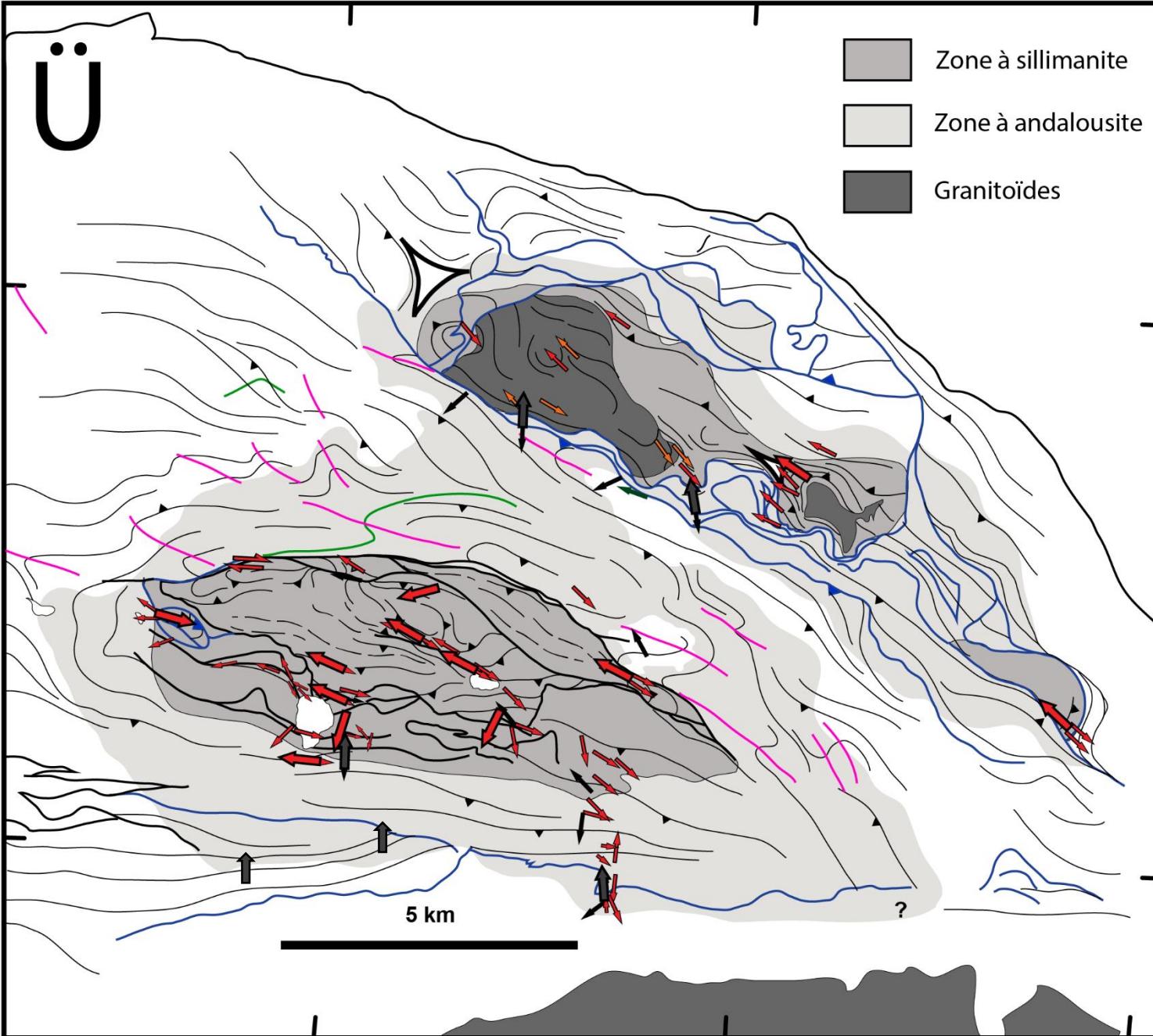
MSWD = 0.68

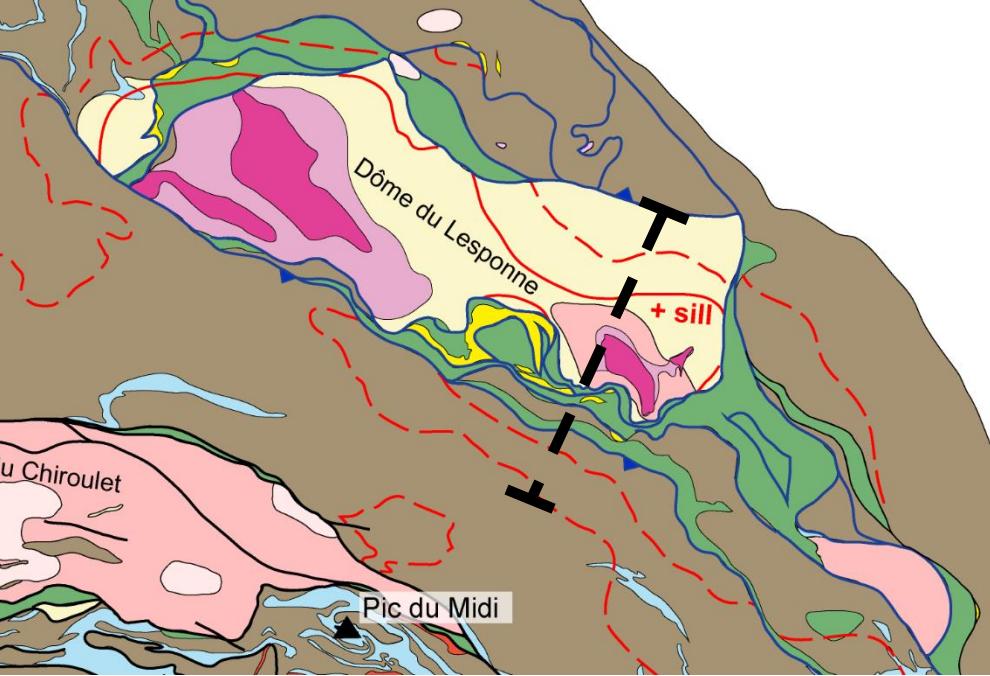
Probability = 0.91



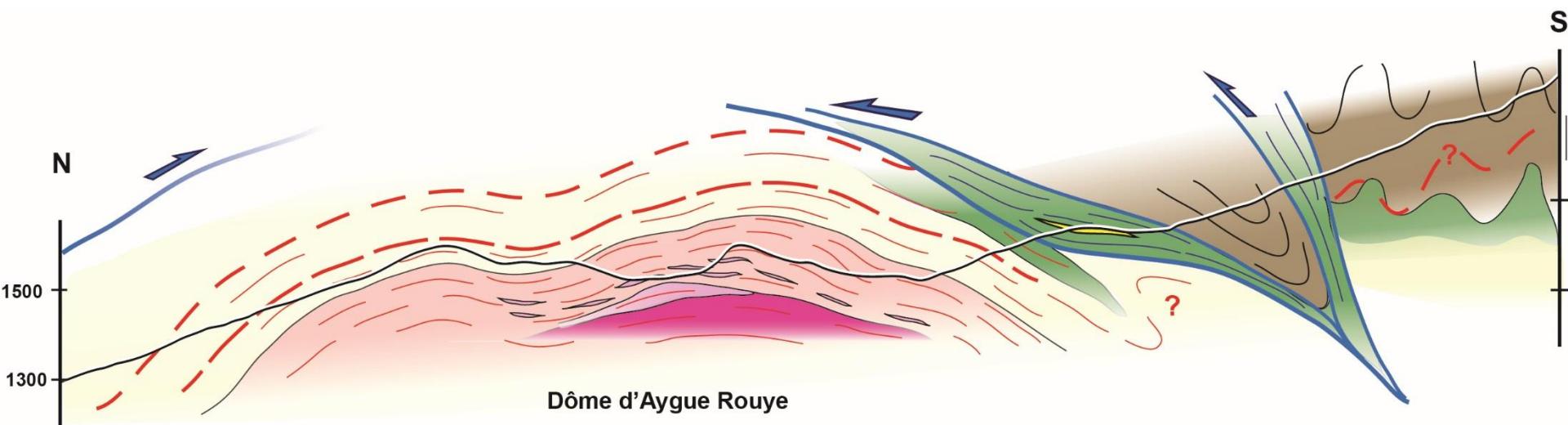
Massif du Chiroulet-Lesponne





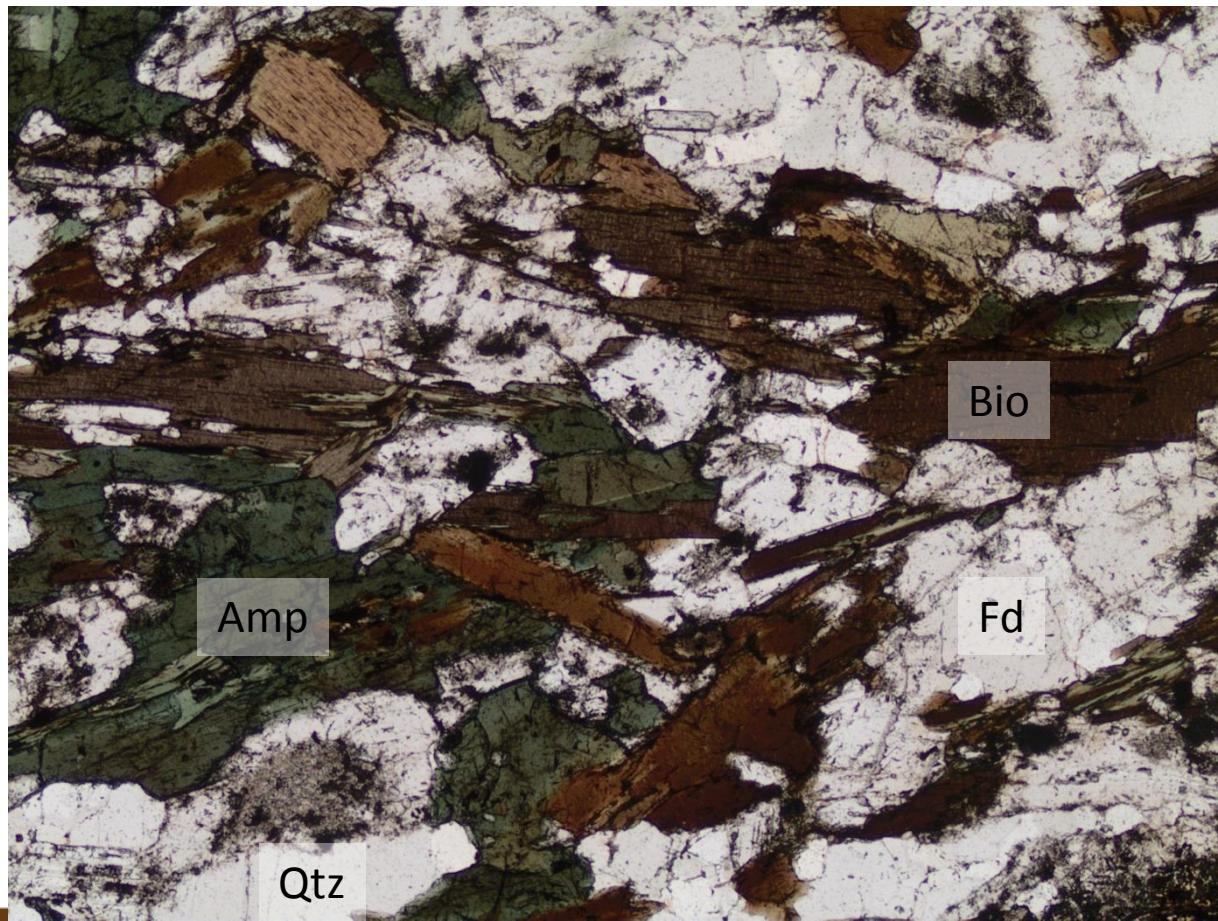
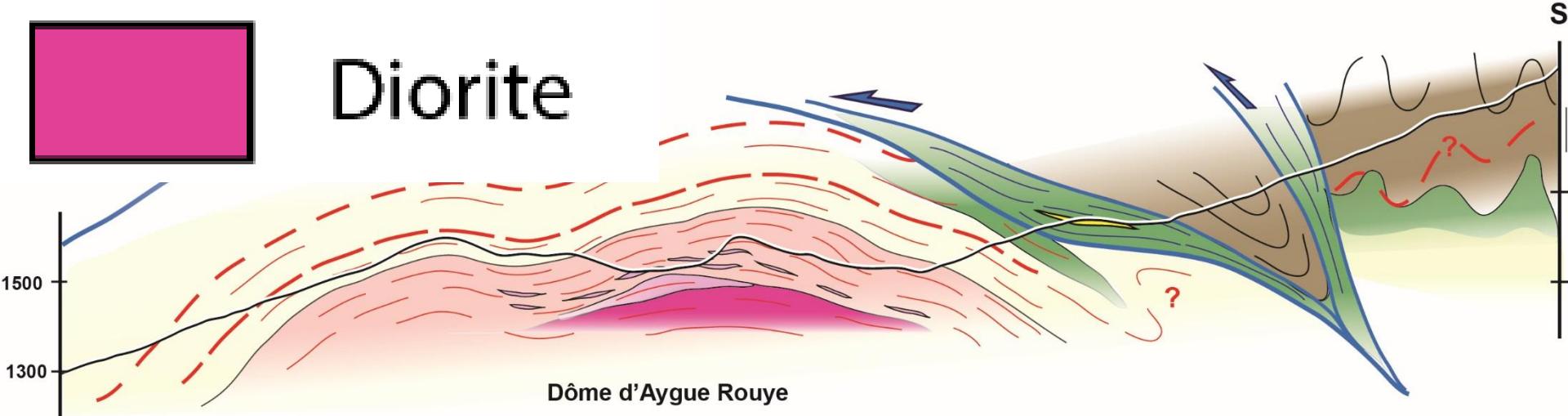


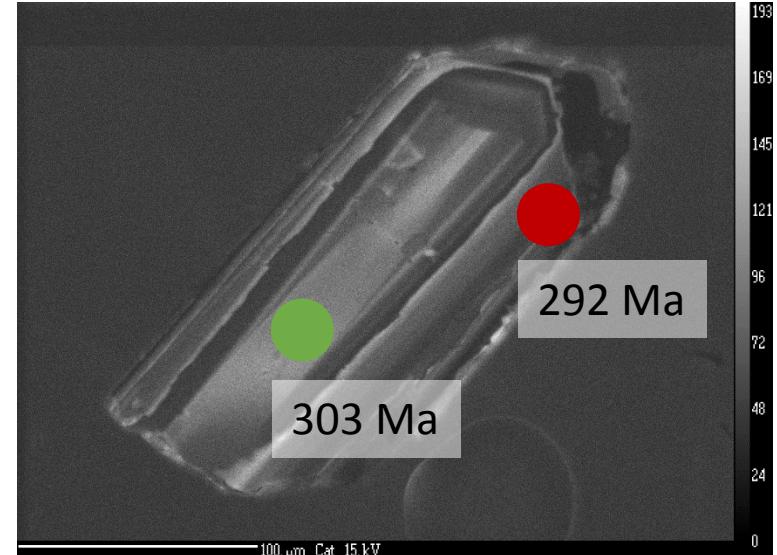
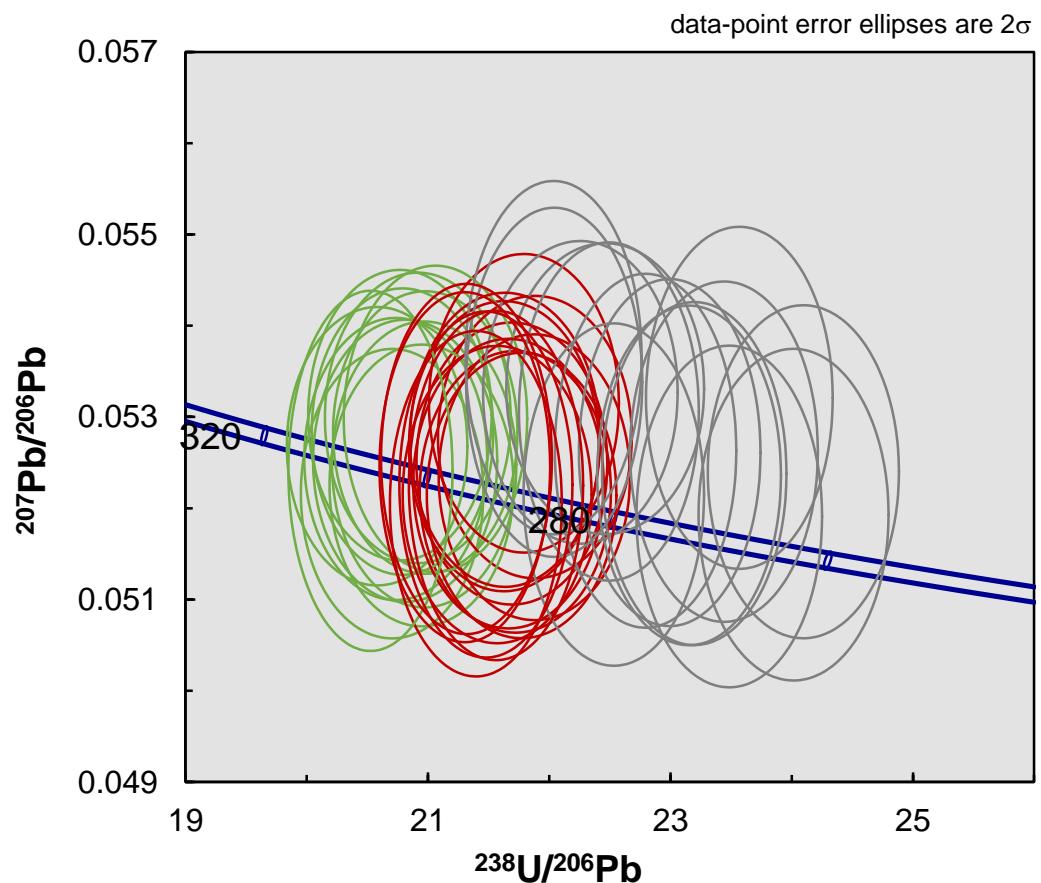
- | | |
|--|--------------------------------|
| | Dévonien (schistes et marbres) |
| | Silurien |
| | Cambrien à Ordovicien |
| | Migmatites |
| | Diorite |
| | Granite porphyrique |



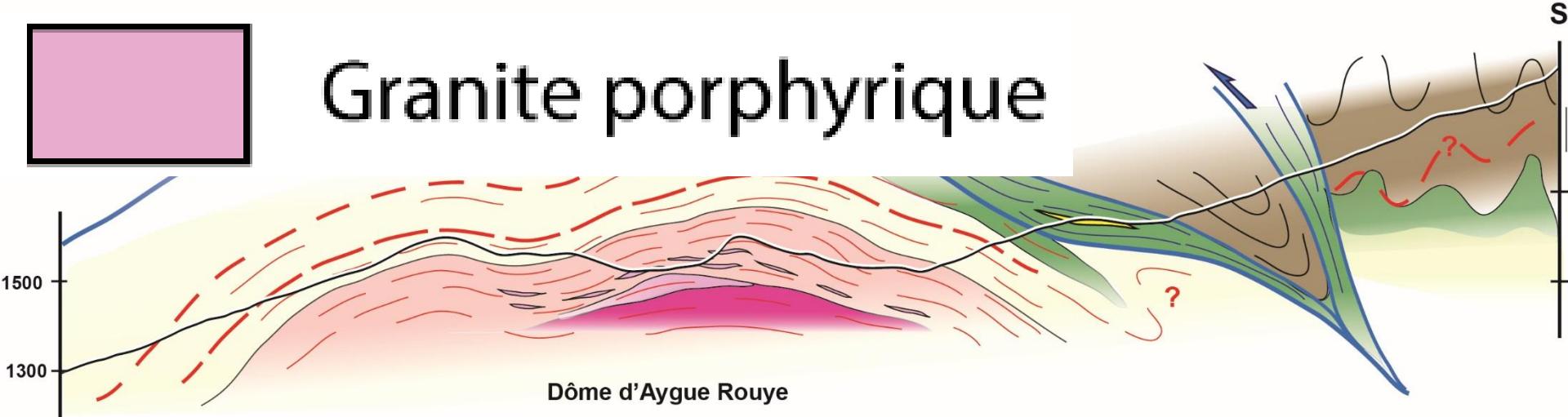


Diorite





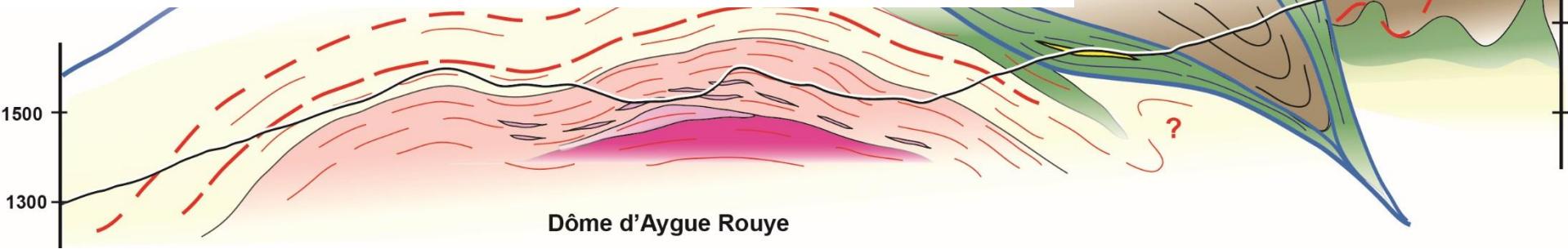
Granite porphyrique

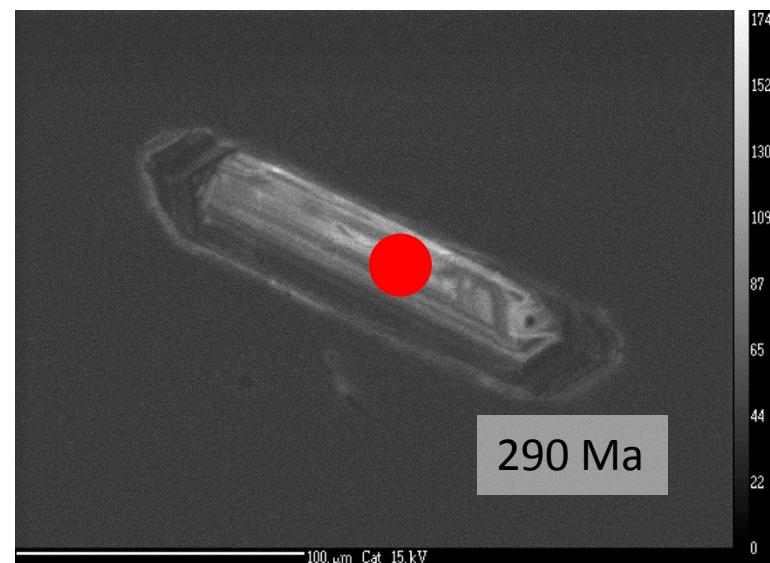
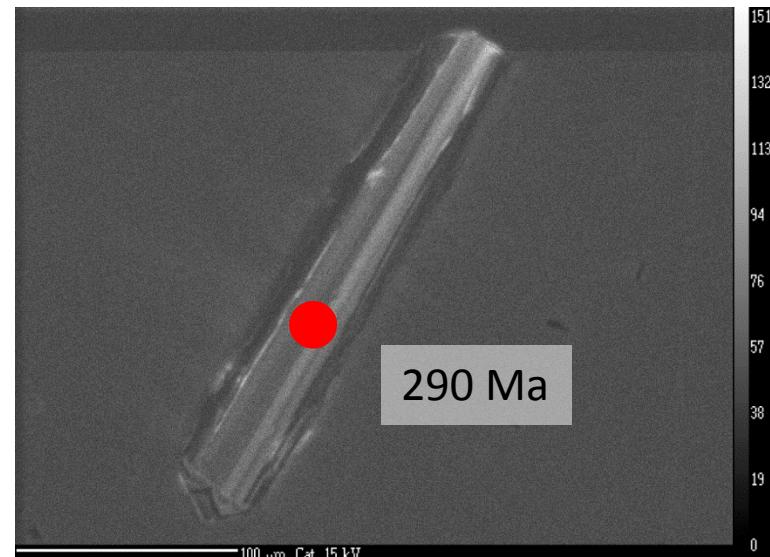
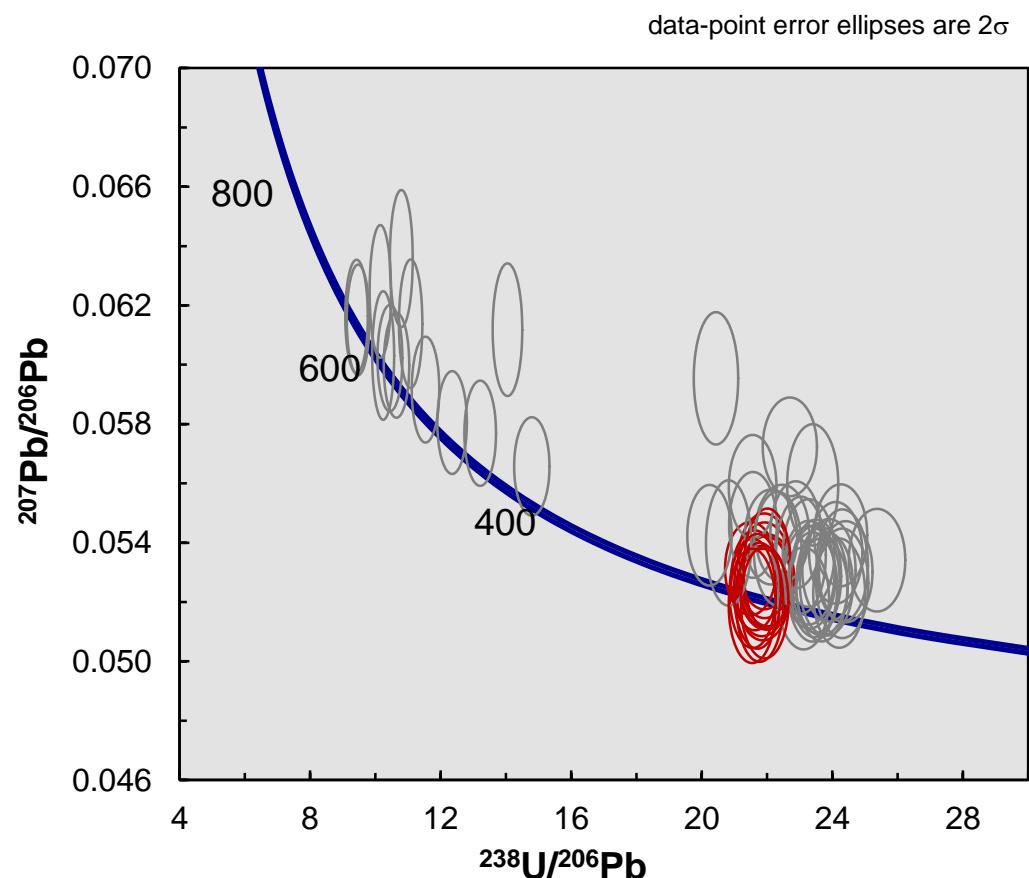


Dôme d'Aygue Rouye

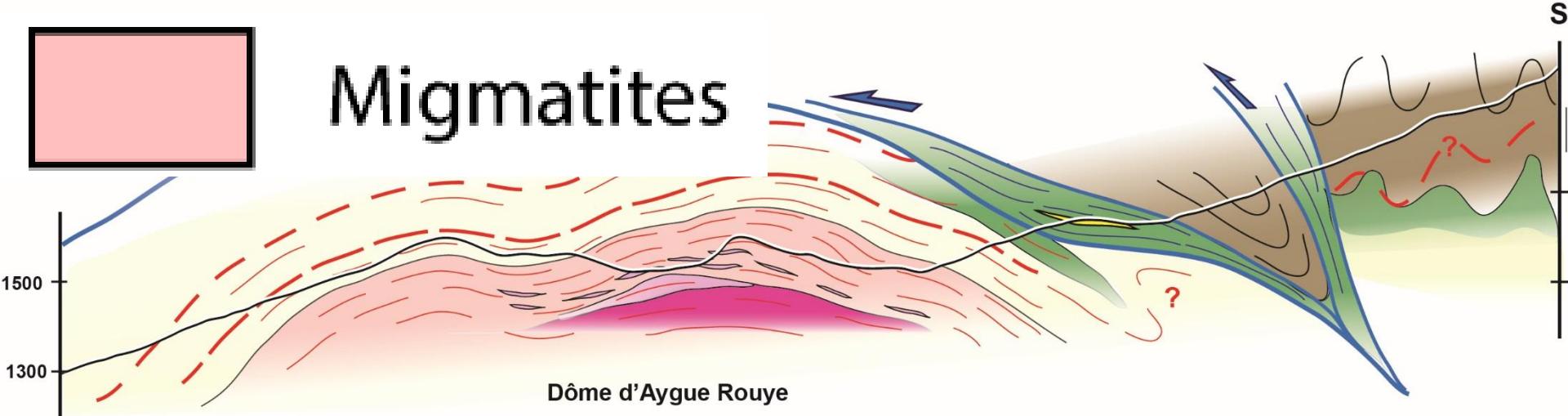


Granite porphyrique





Migmatites

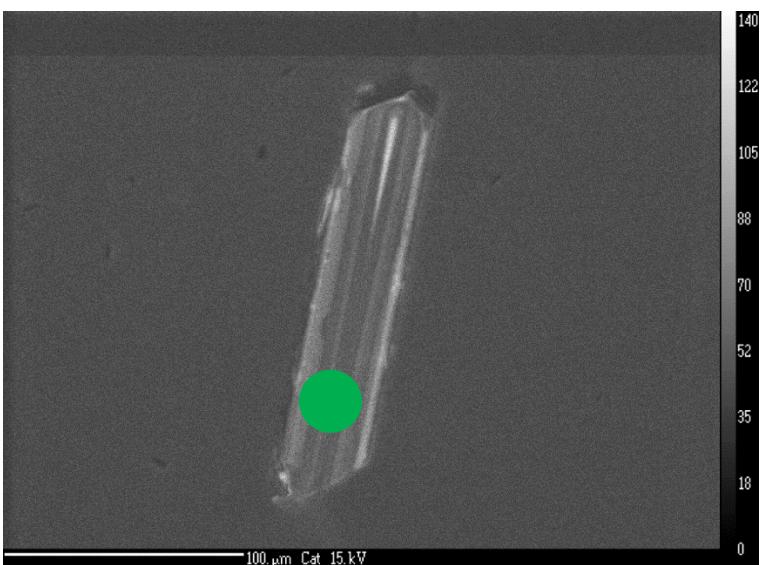
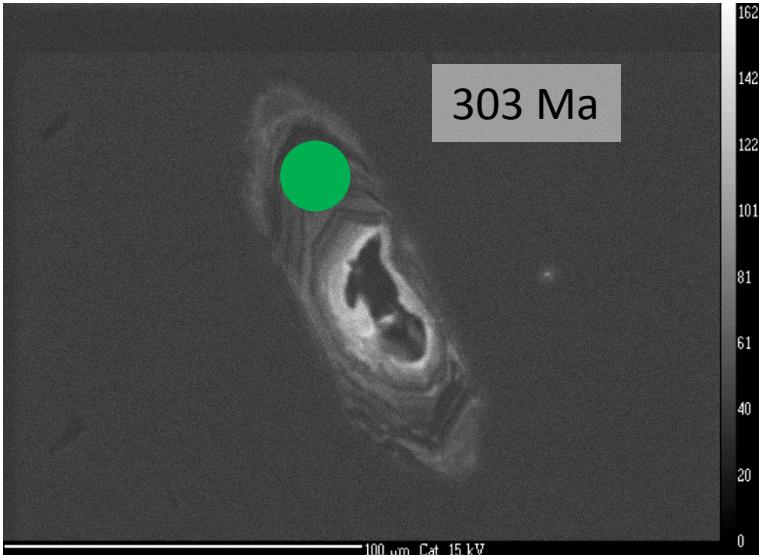
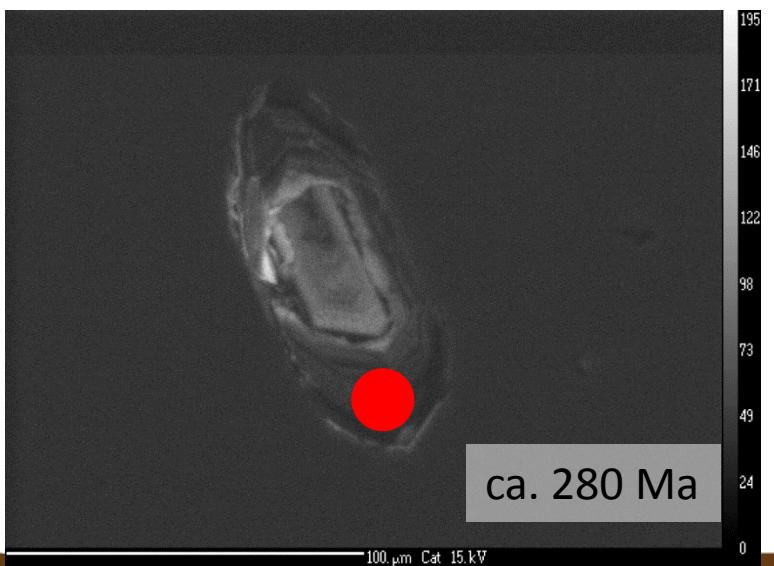
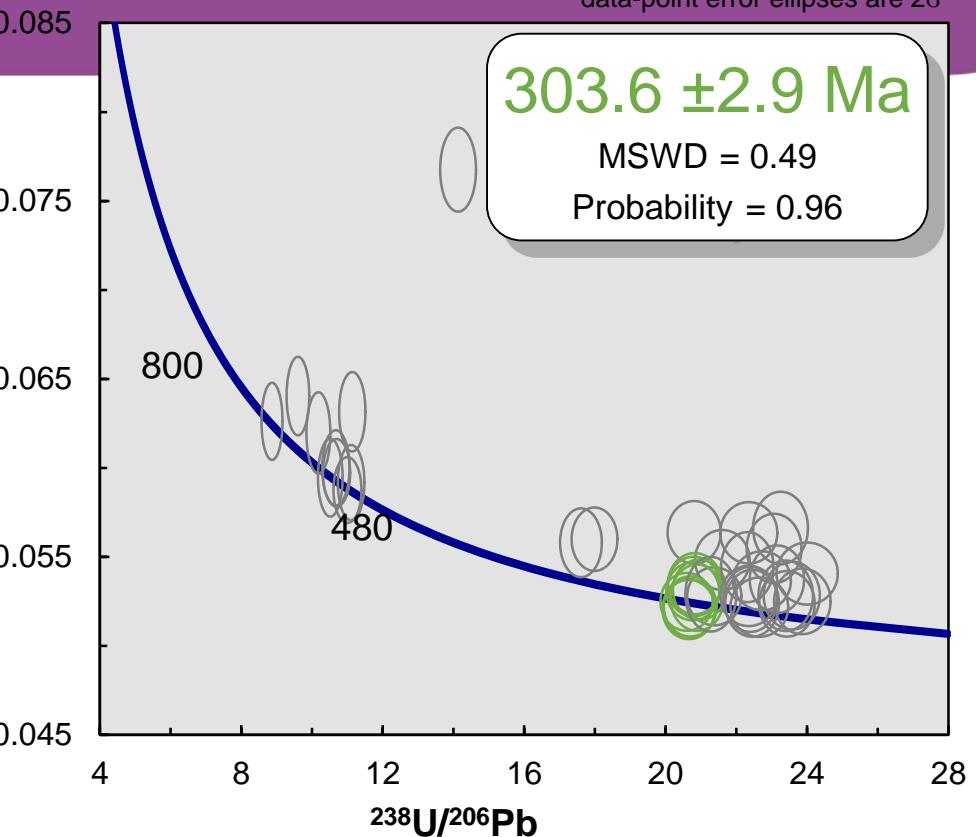


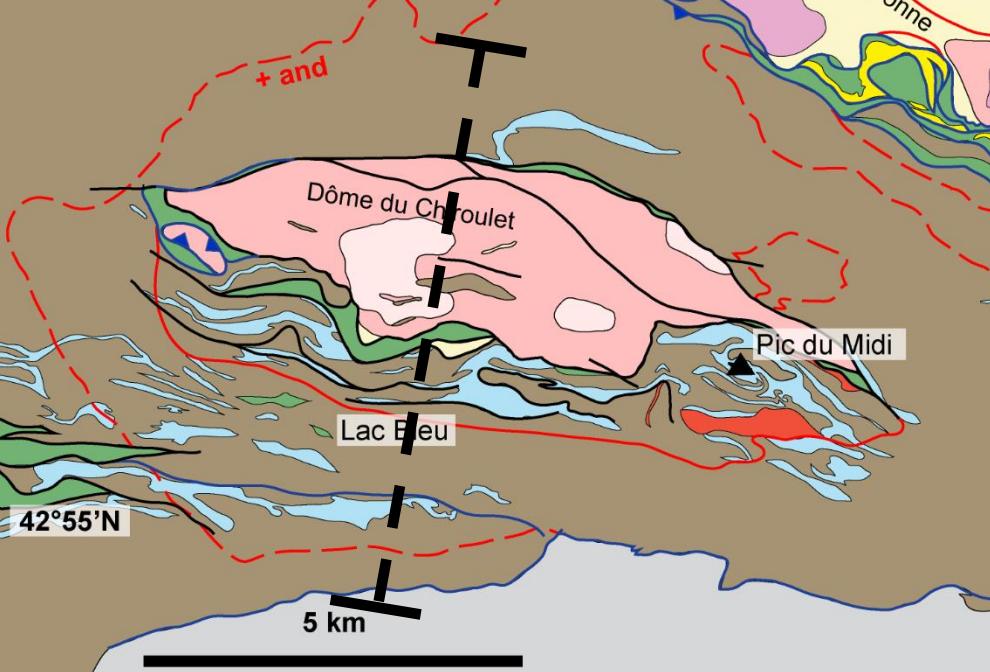
Dôme d'Aygue Rouye

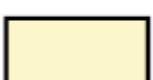
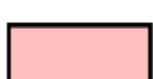


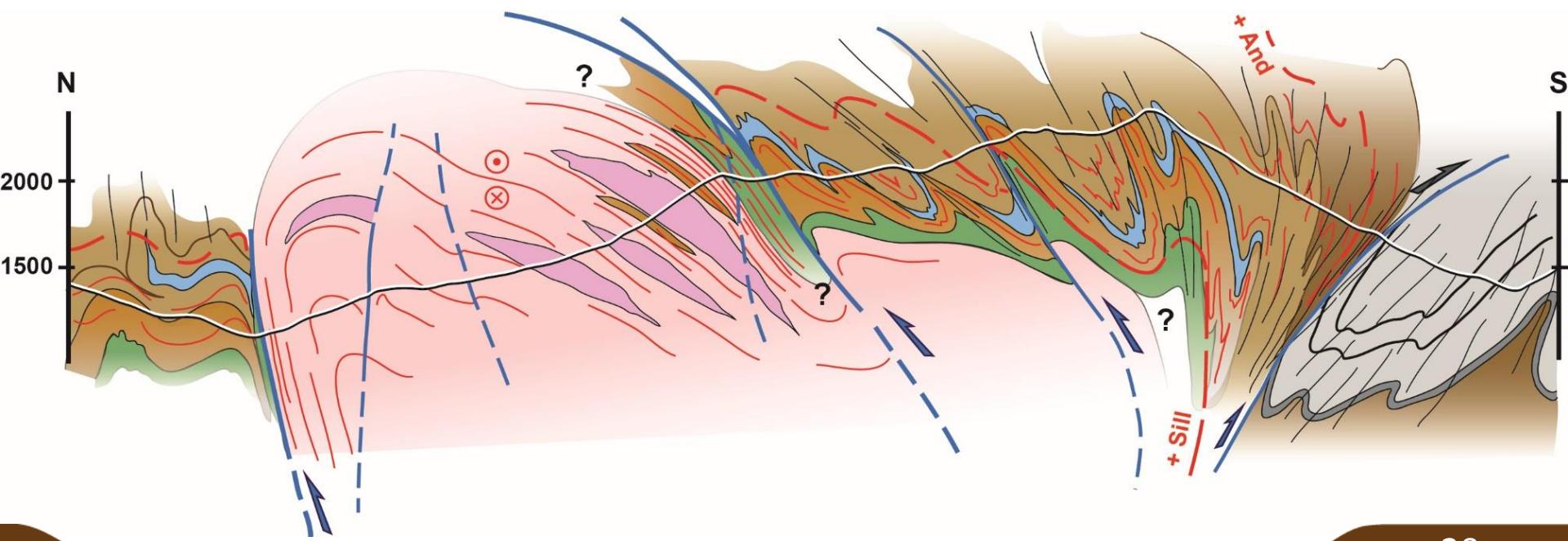
data-point error ellipses are 2σ

$^{207}\text{Pb}/^{206}\text{Pb}$

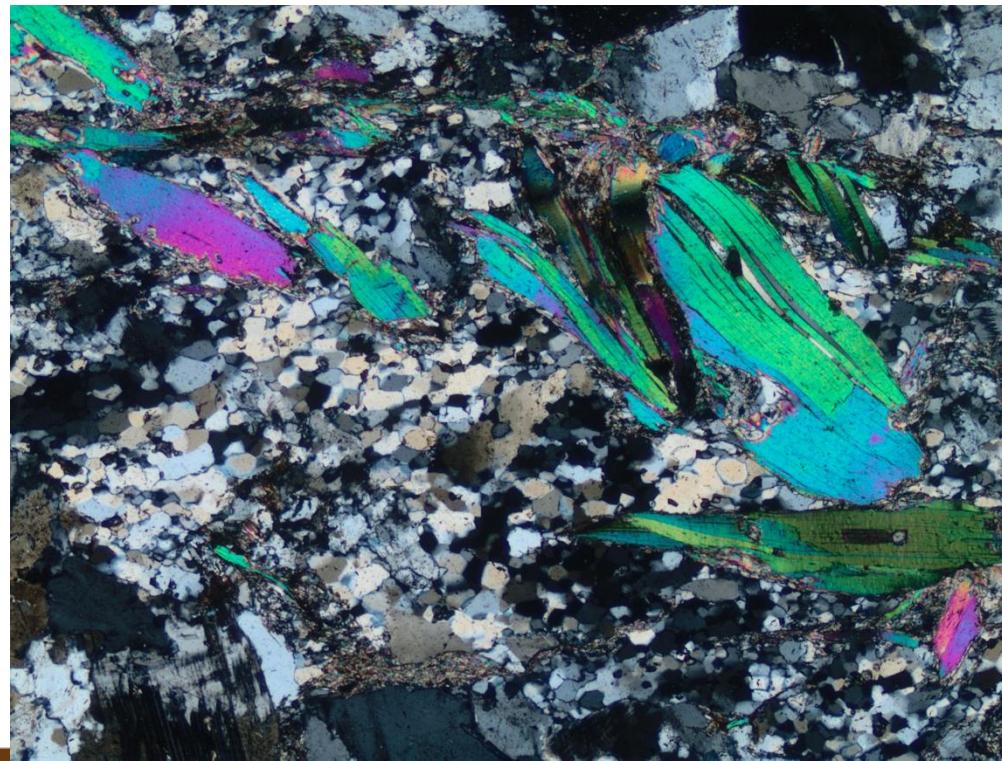
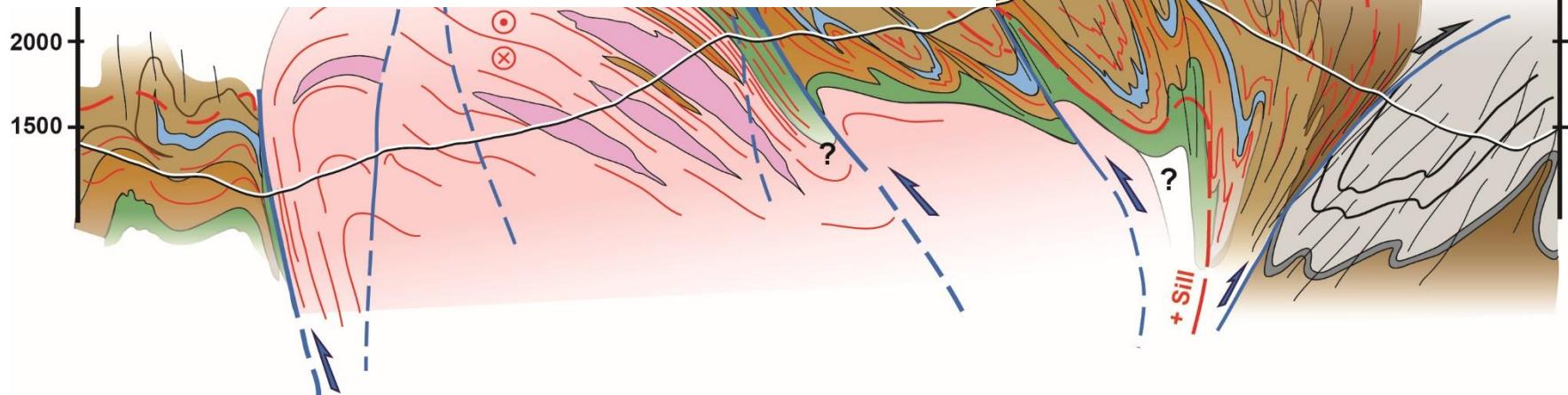


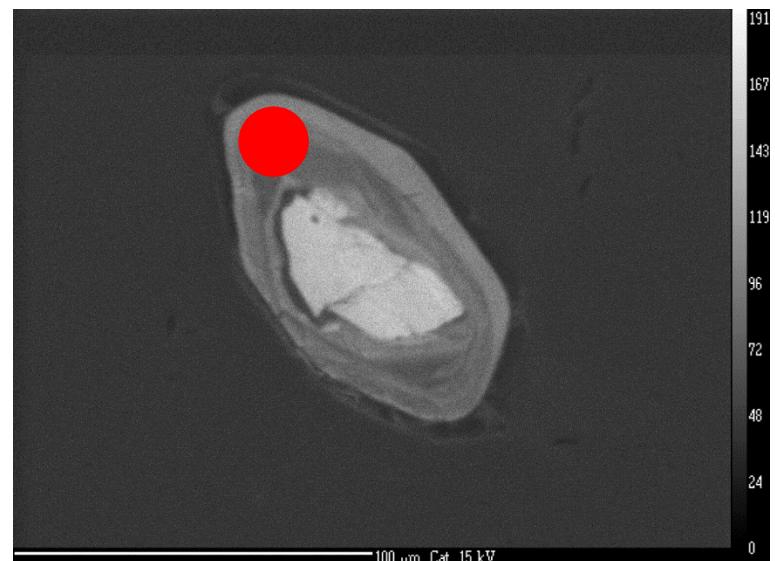
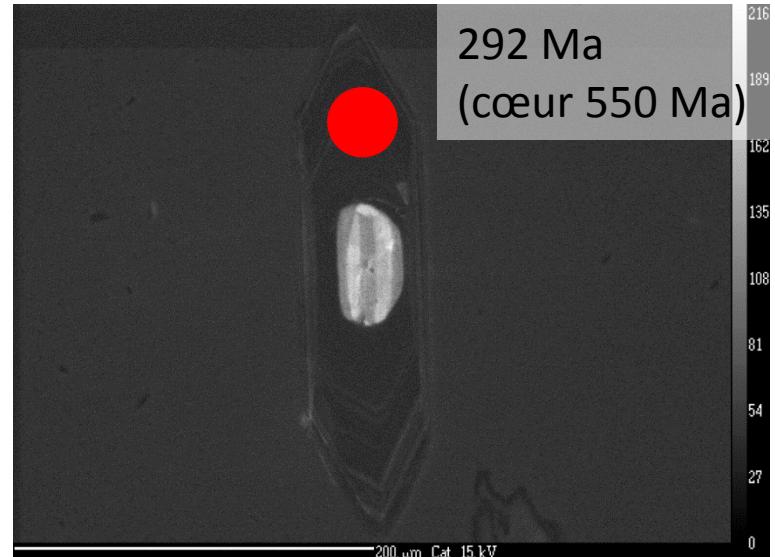
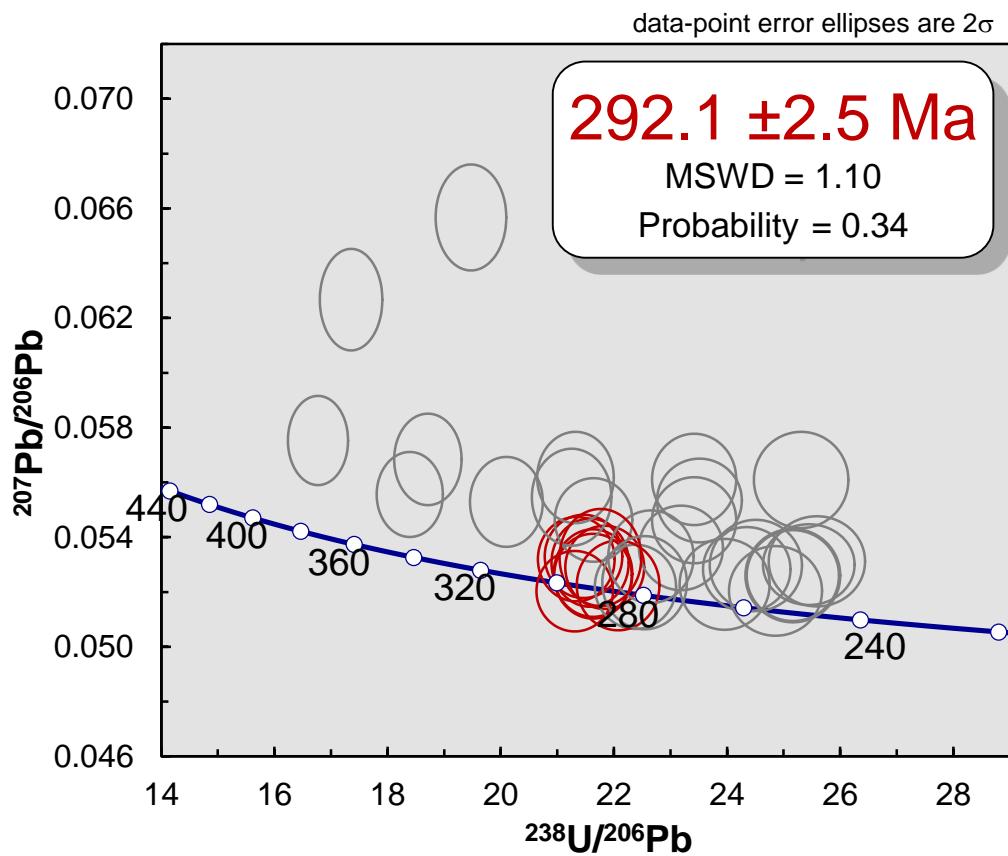


-  Dévonien (schistes et marbres)
-  Silurien
-  Cambrien à Ordovicien
-  Migmatites
-  Granite d'anatexie



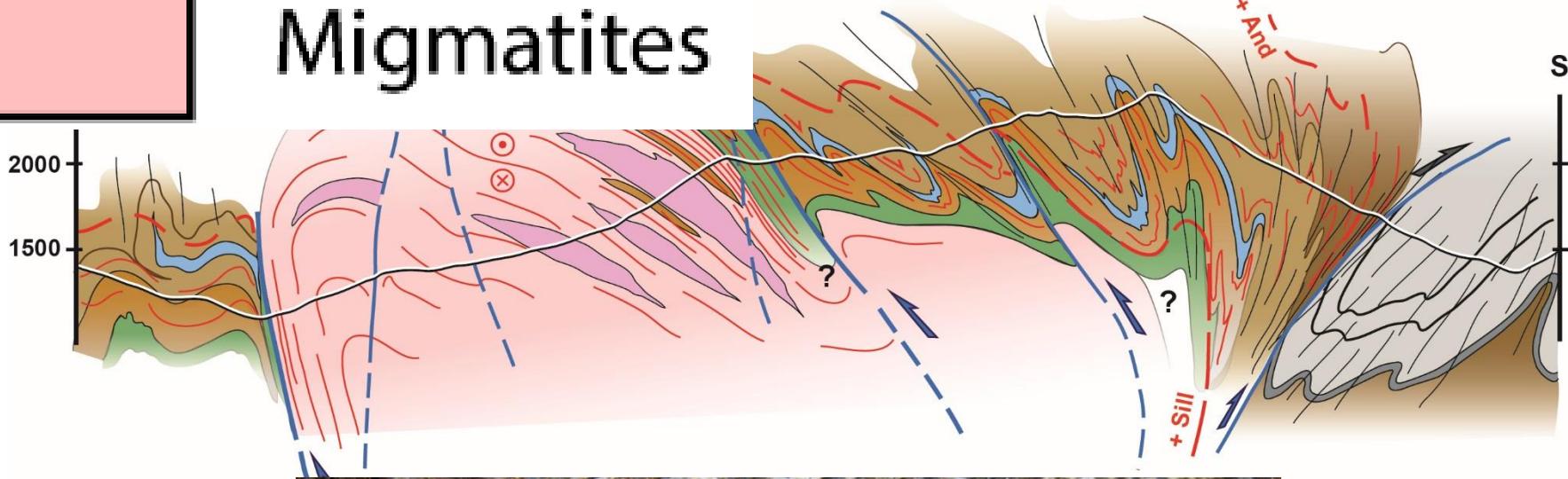
Granite d'anatexie

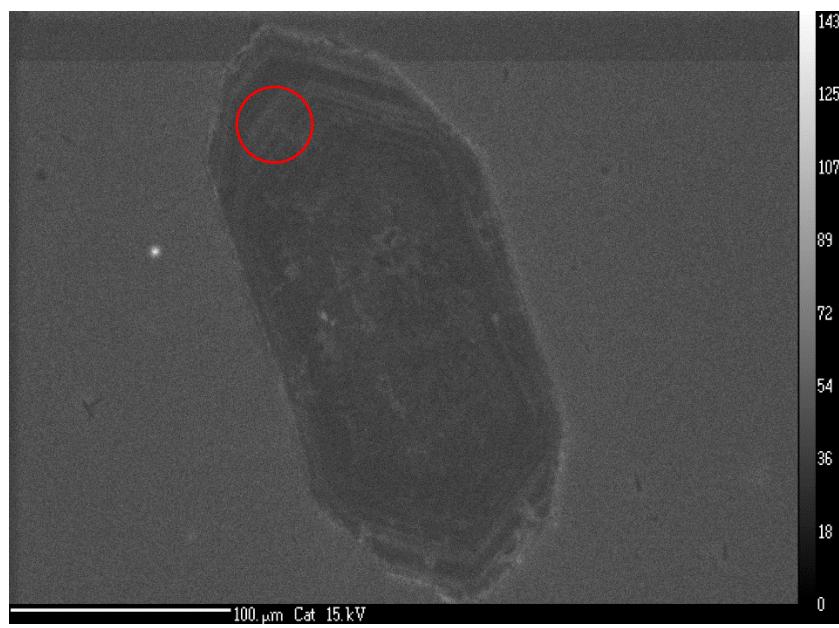
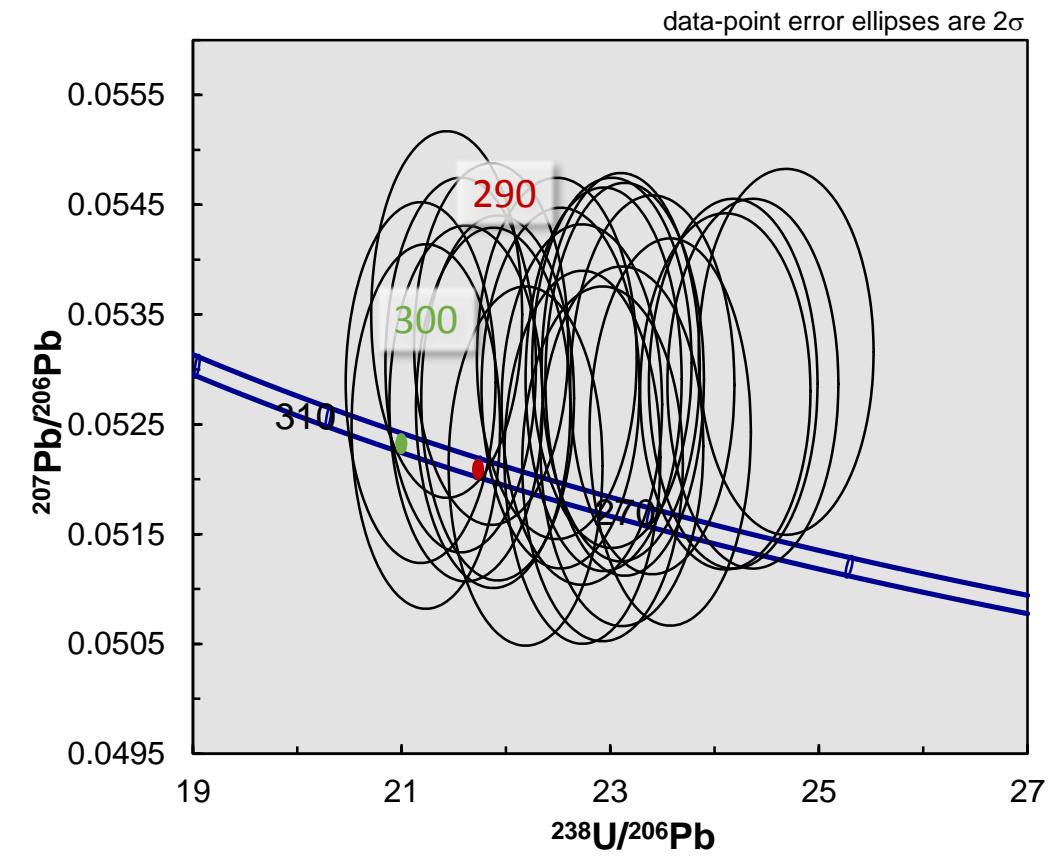






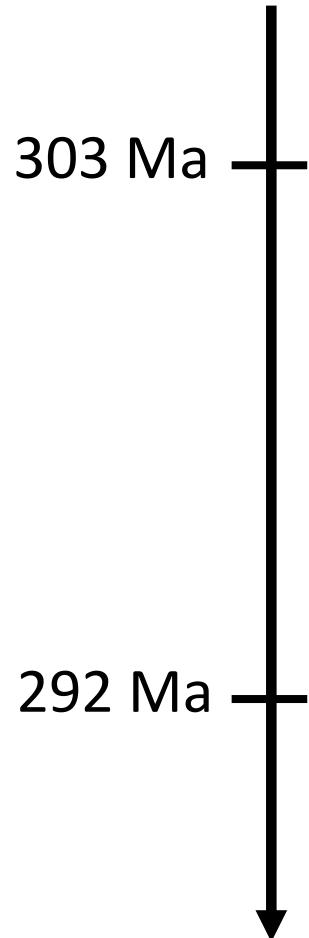
Migmatites





Magmatisme

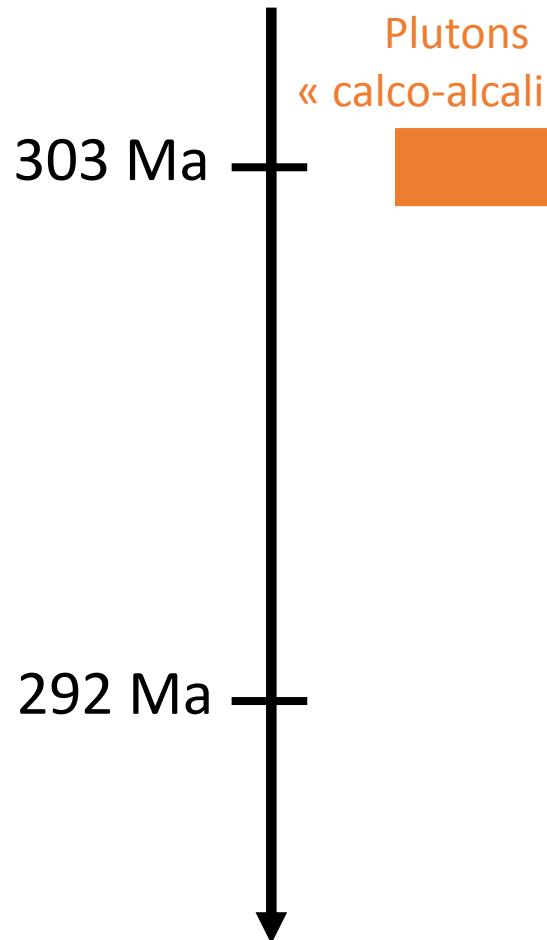
Déformation



Conclusion

Magmatisme

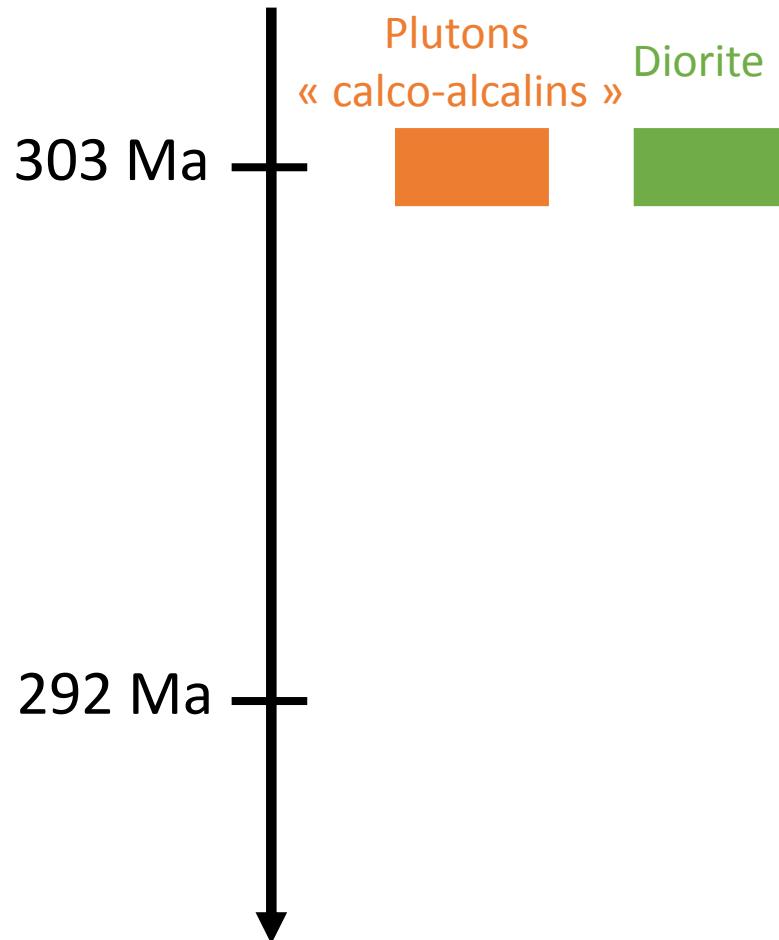
Déformation



Conclusion

Magmatisme

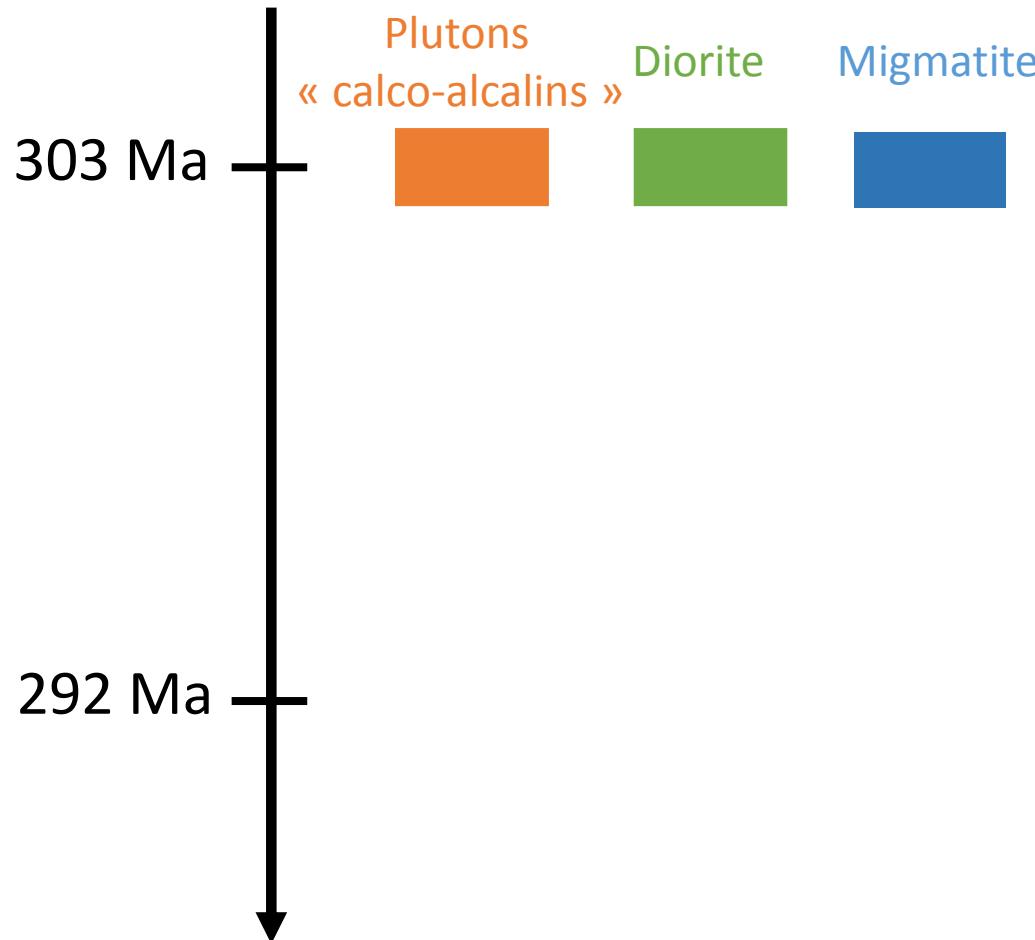
Déformation



Conclusion

Magmatisme

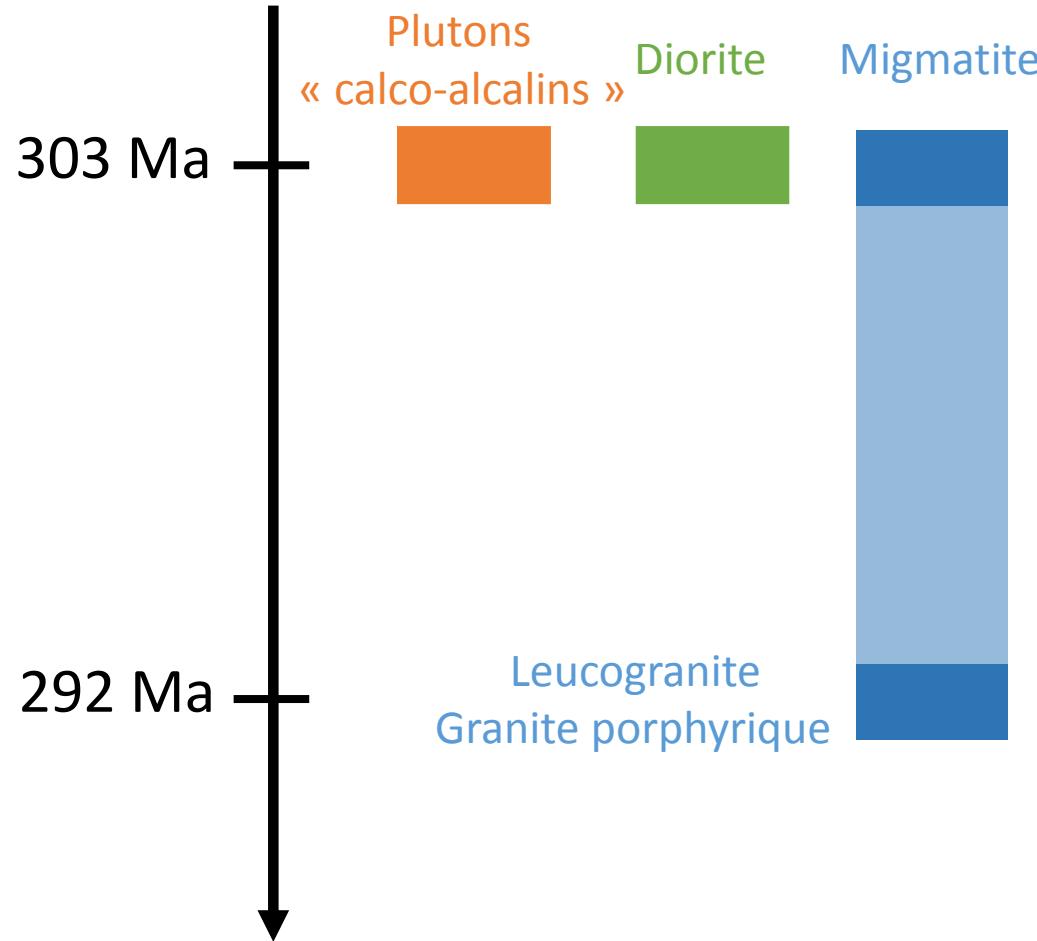
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Conclusion

Magmatisme

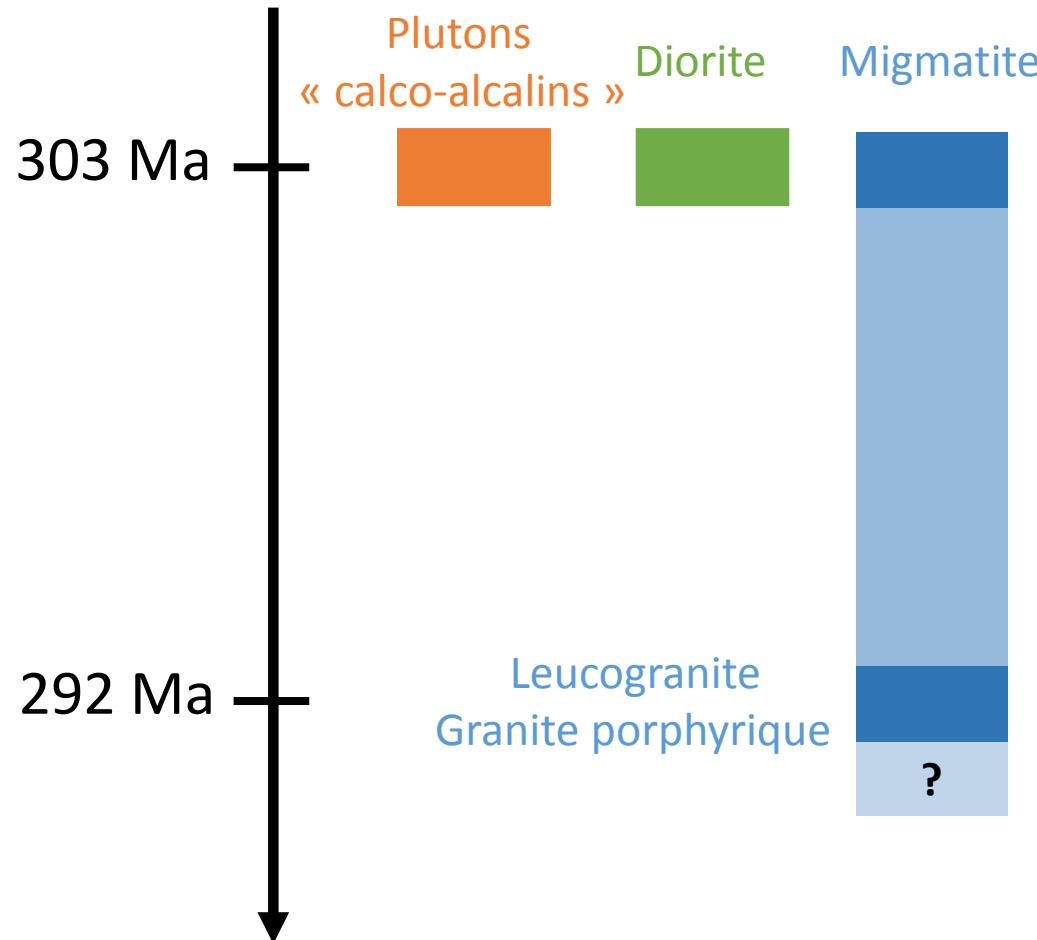
Déformation



Conclusion

Magmatisme

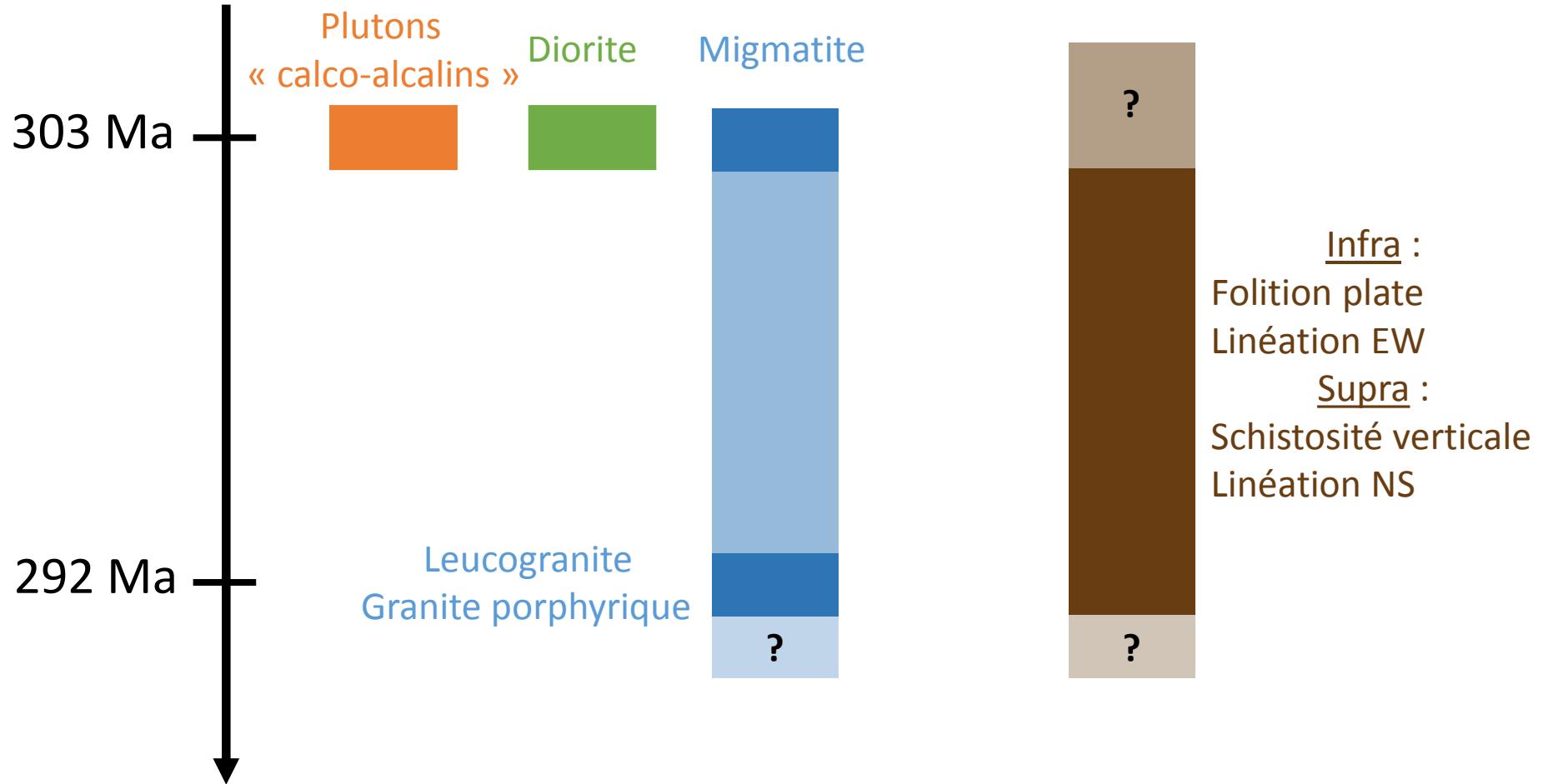
Déformation



Conclusion

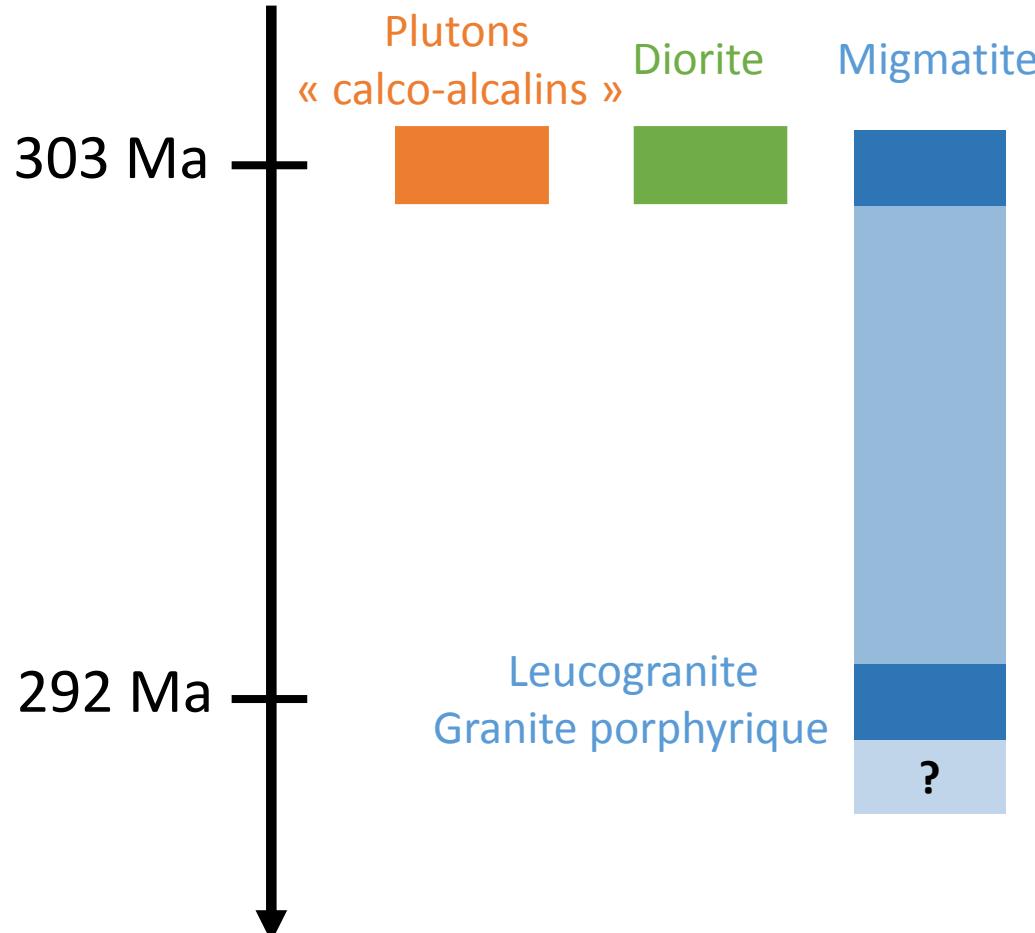
Magmatisme

Déformation

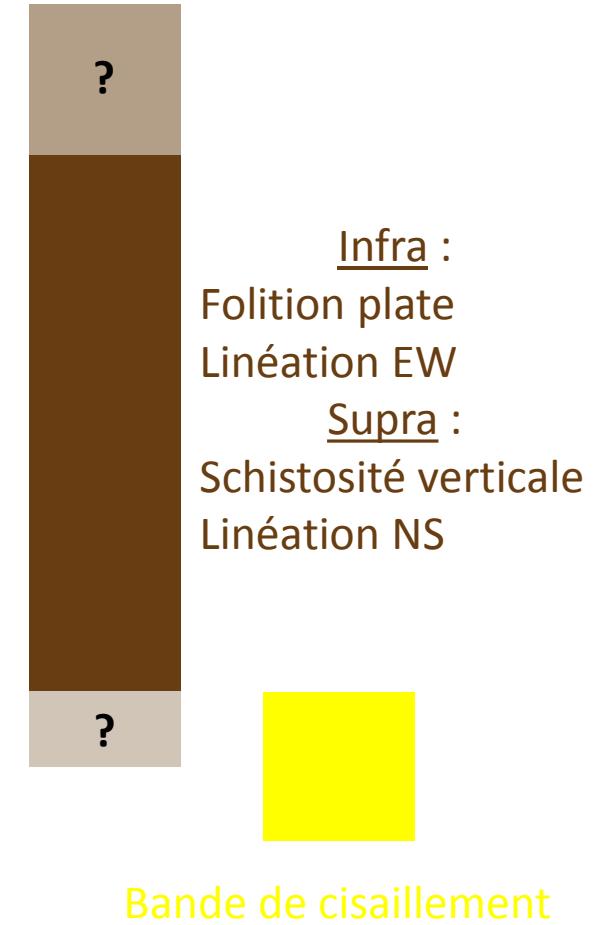


Conclusion

Magmatisme



Déformation



Panorama des Pyrénées depuis le Pic du Midi

Merci de votre attention !



