INTERACTIONS FLUIDES/ROCHES DURANT L'EXHUMATION DU MANTEAU. ETUDE DES INCLUSIONS FLUIDES DANS UN DÉTACHEMENT MAJEUR DE LA ZONE NORD-PYRÉNÉENNE (URDACH : CHAÎNONS BÉARNAIS)

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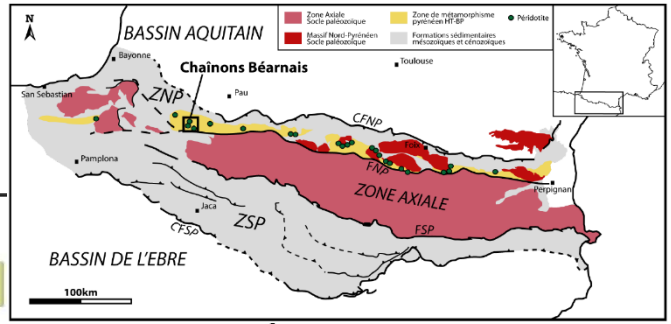
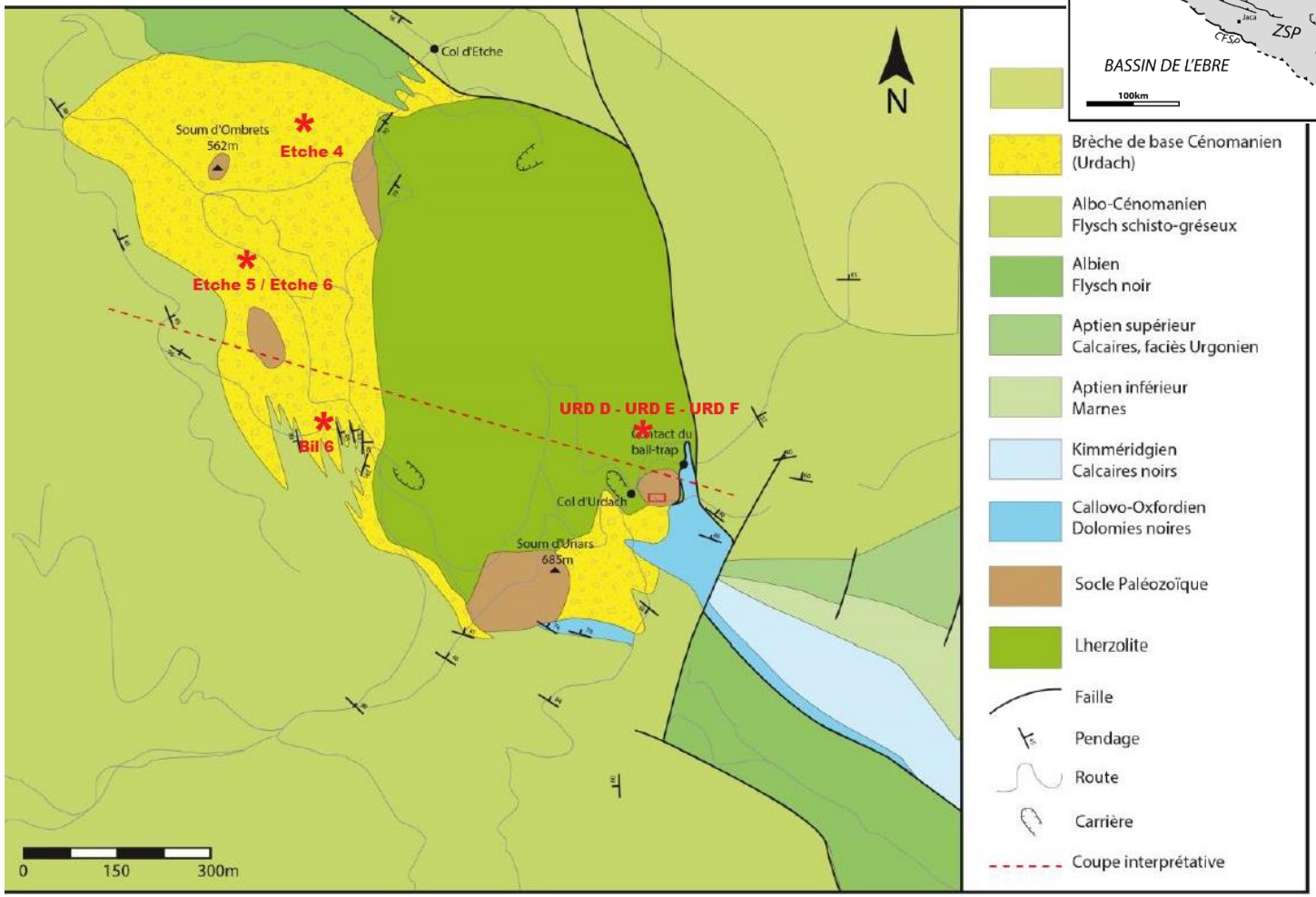
Marie-Christine Boiron (Géoressources)

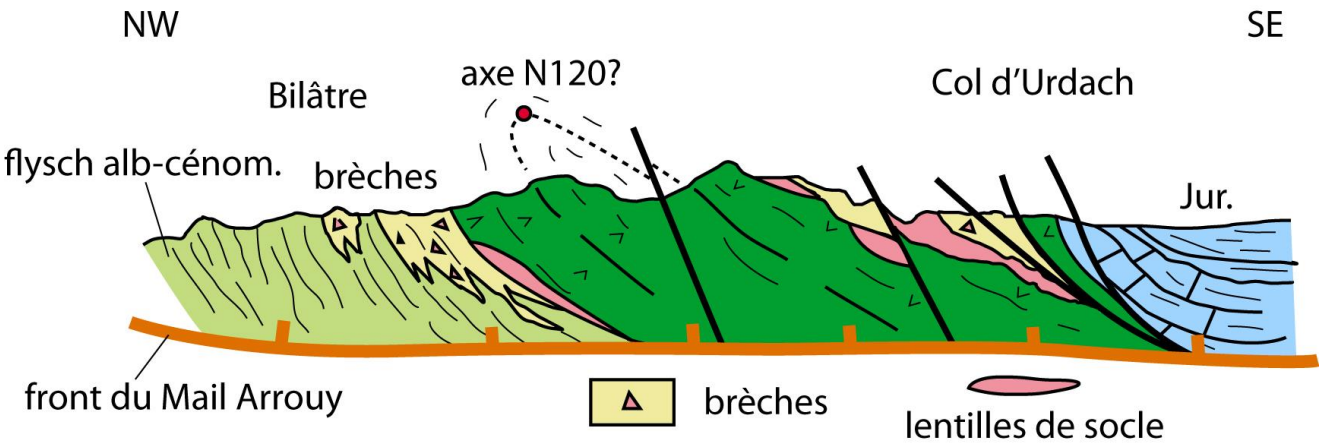
Philippe Boulvais (Géosciences Rennes)

Le Massif d'Urdach

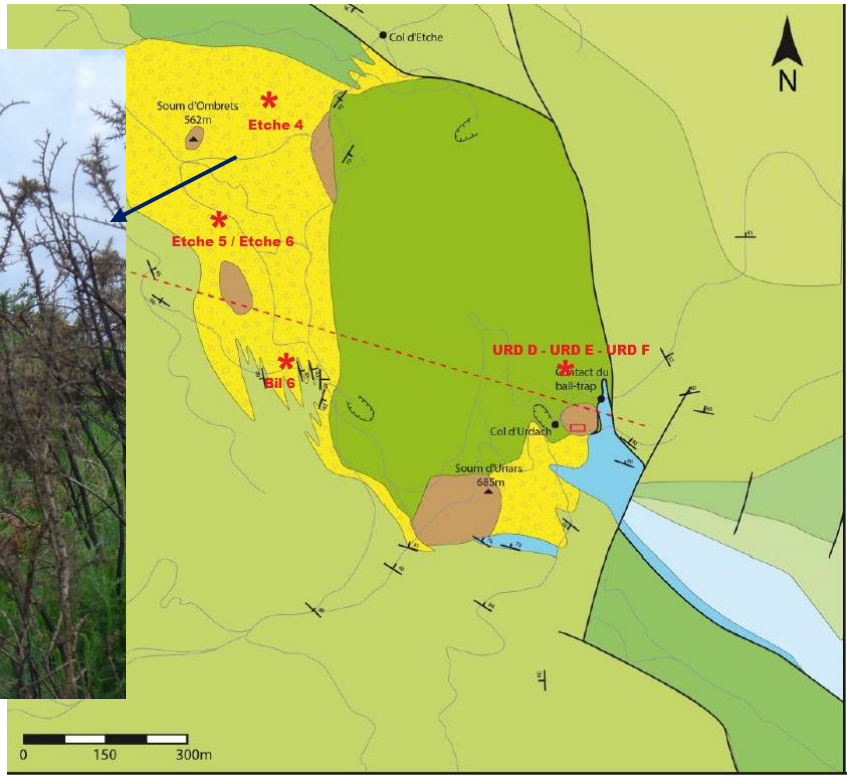




Le Massif d'Urdach

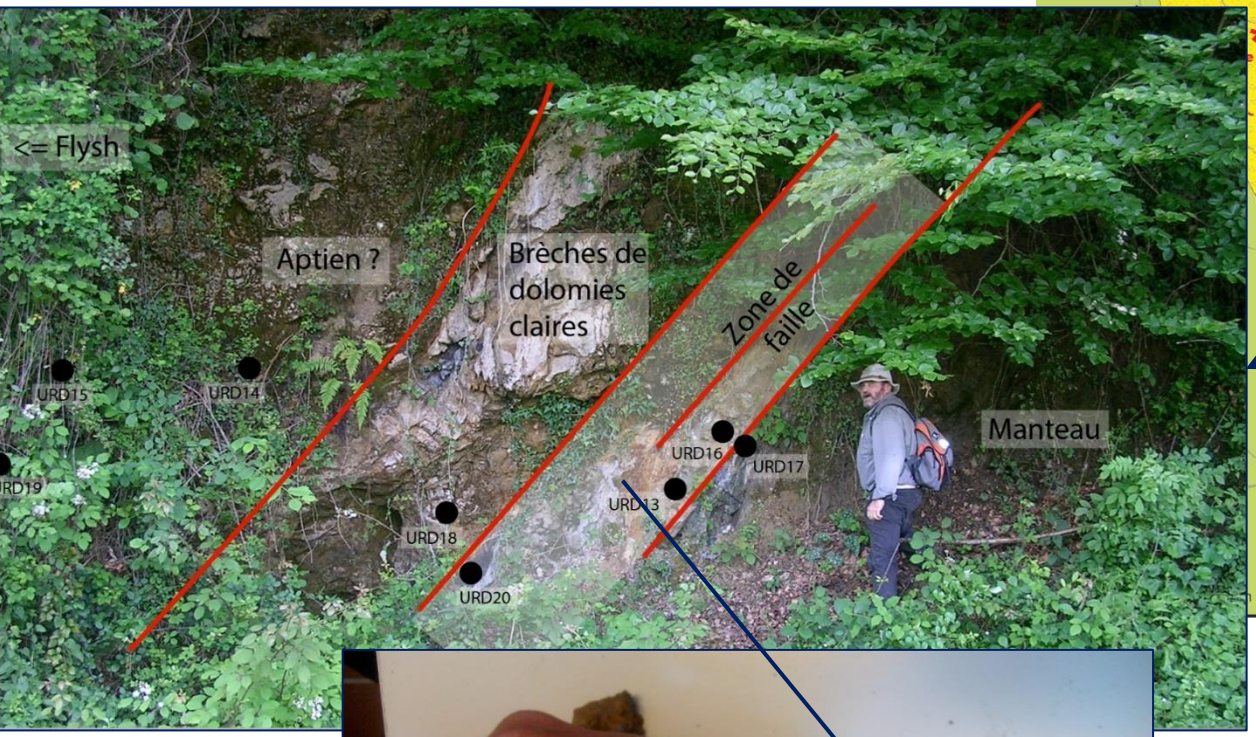


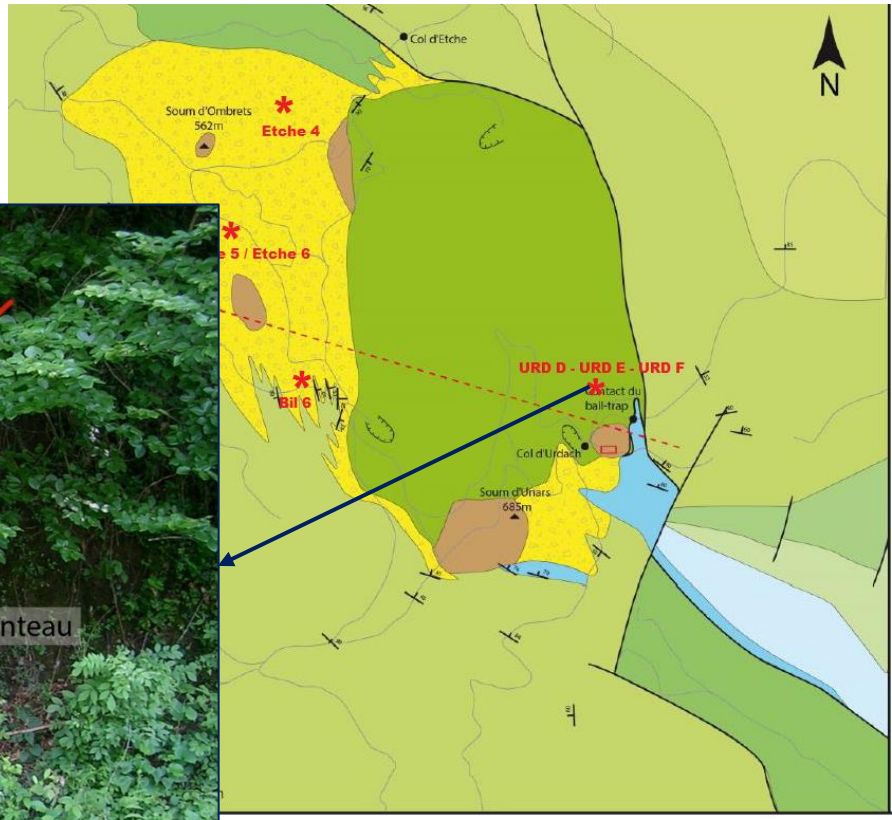
Brèches d'Urdach



Brèches d'Urdach

Contact Manteau/sédiments



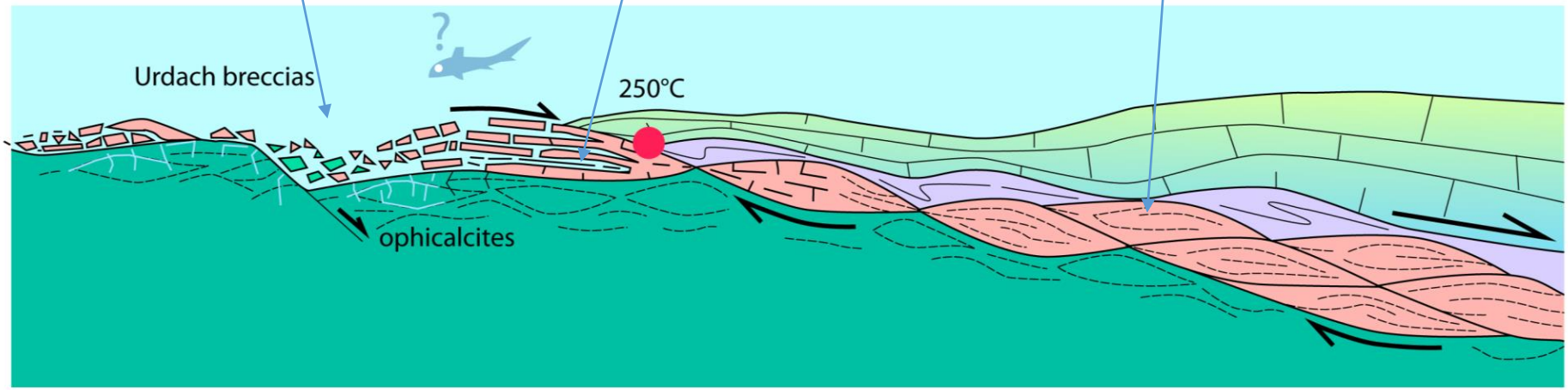


Objectif du Travail

Brèches sédimentaires

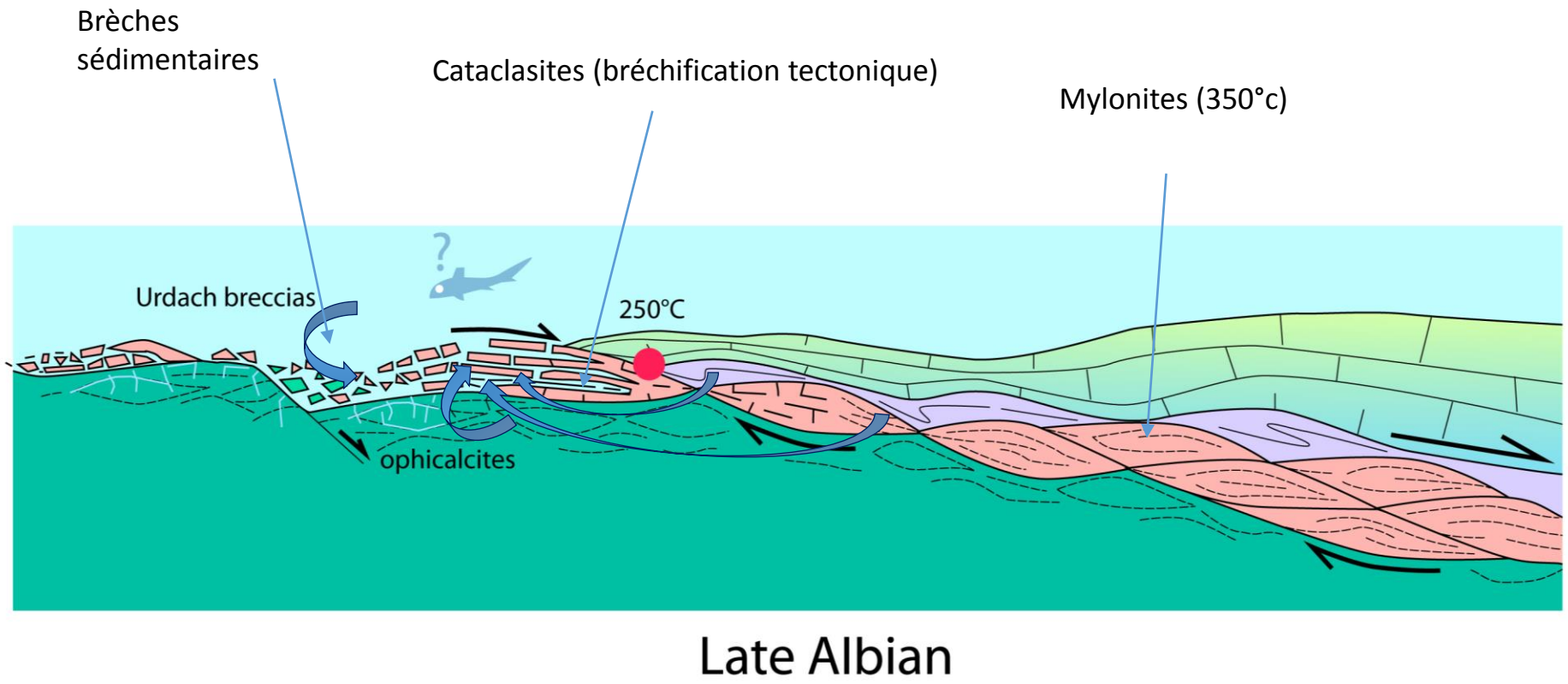
Cataclasites (bréchification tectonique)

Mylonites (350°c)



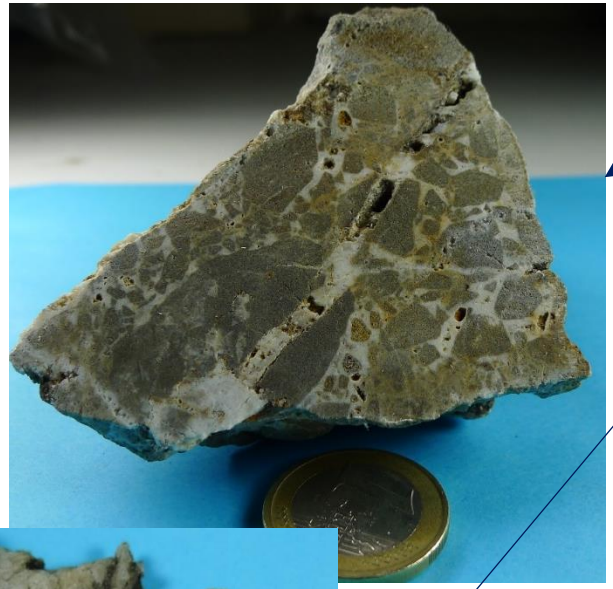
Late Albian

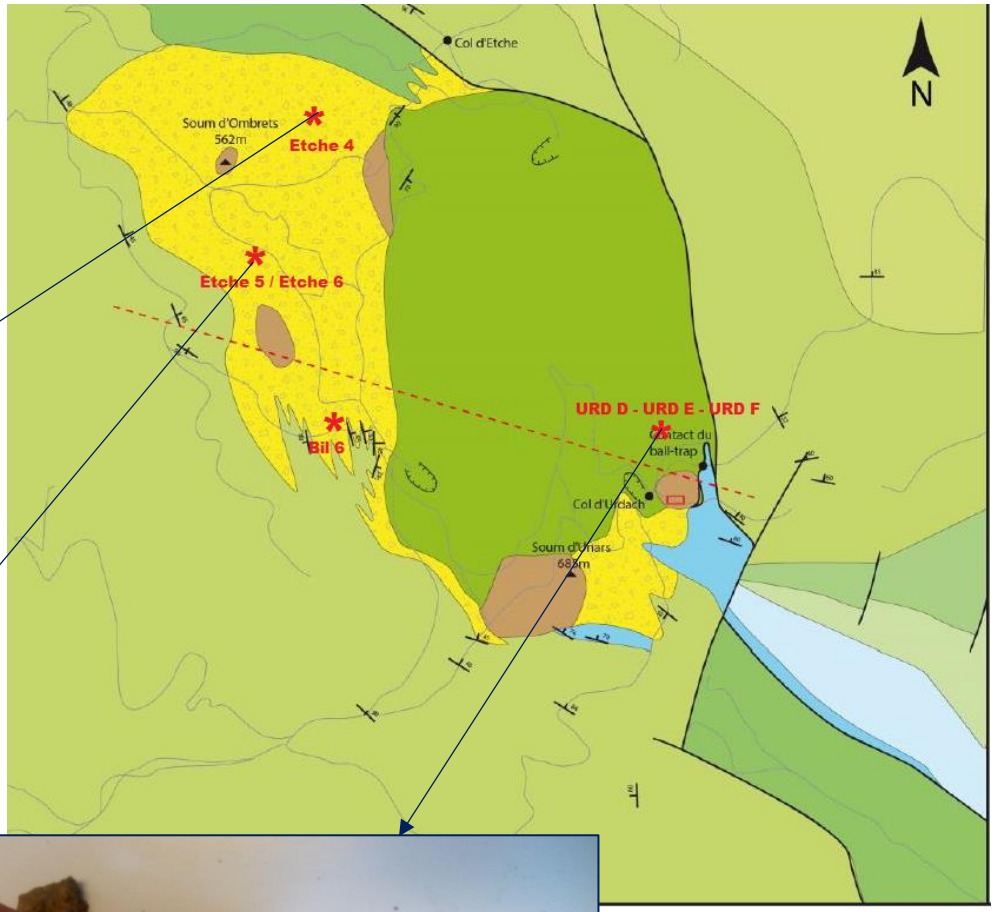
Objectif du Travail



Caractériser les fluides responsables de la formation du ciment de la brèche d'Urdach par l'étude des inclusions fluides.

Echantillons étudiés





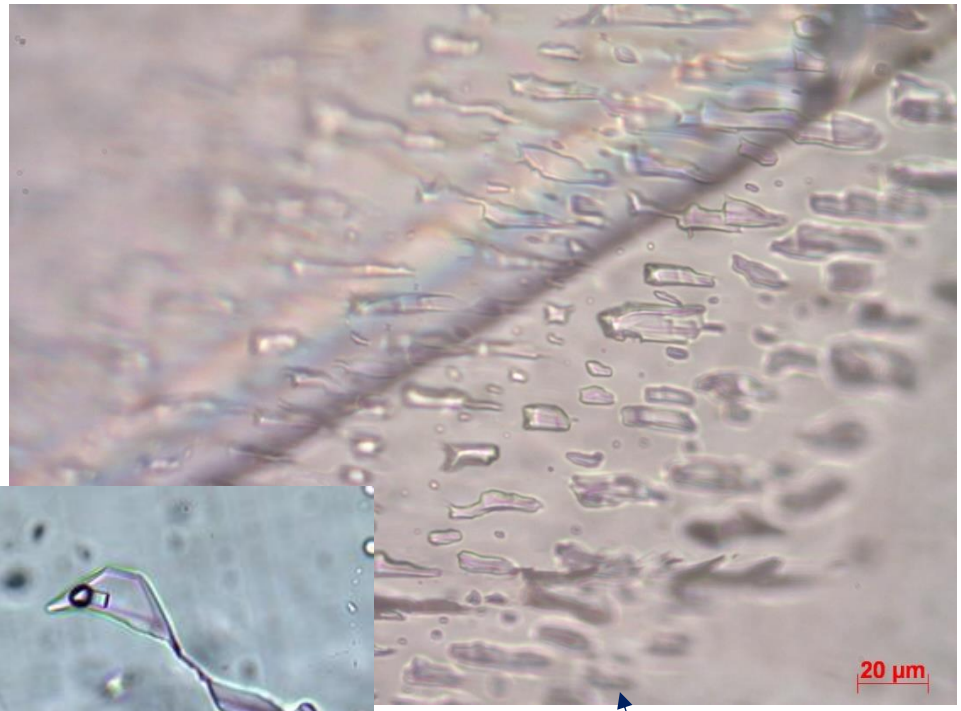
Etude des inclusions fluides

Pétrographie

Microthermométrie

Spectroscopie Raman

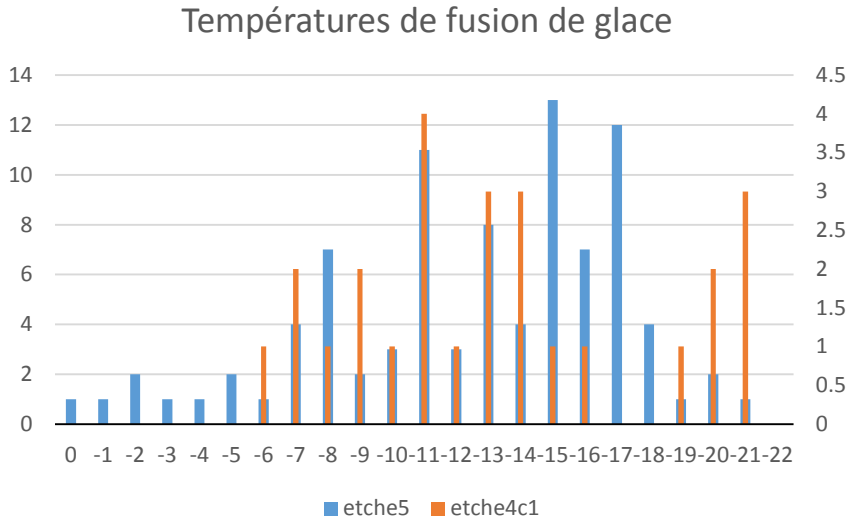
Pétrographie

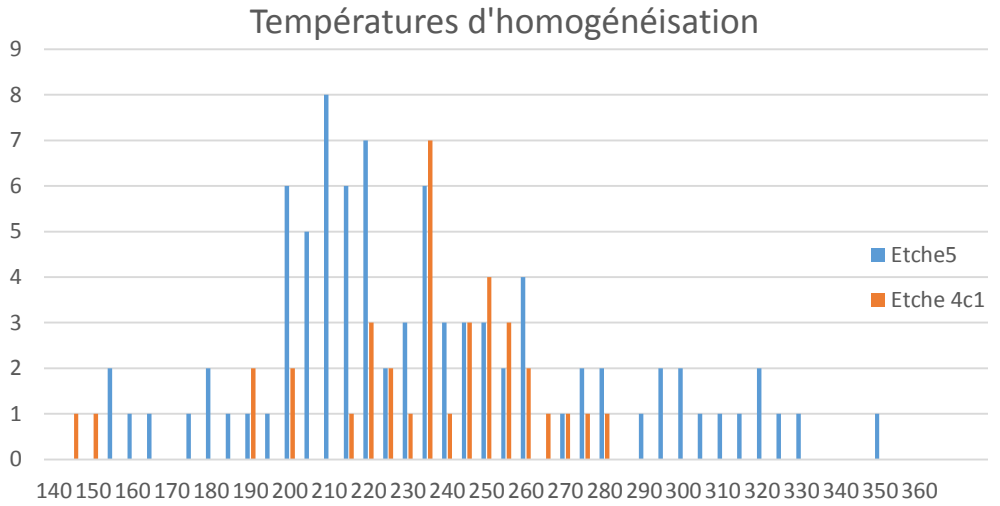


Quartz

Calcite

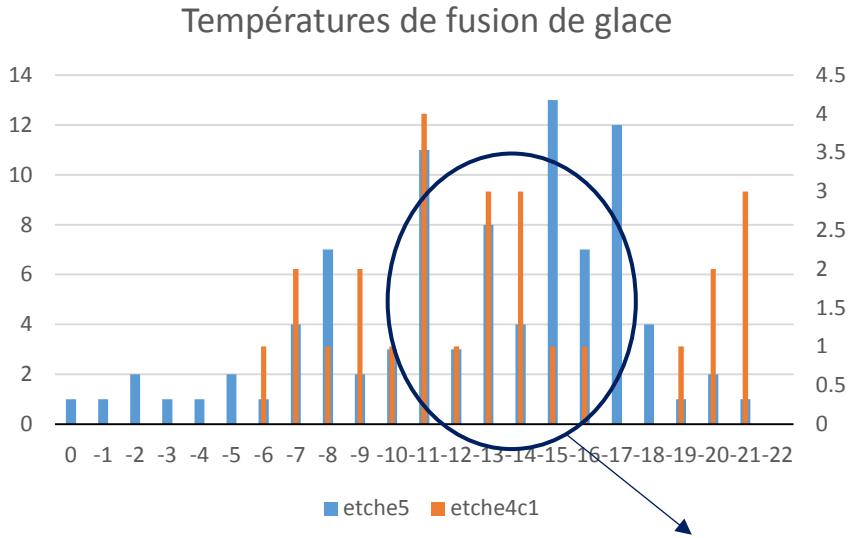
Microthermométrie



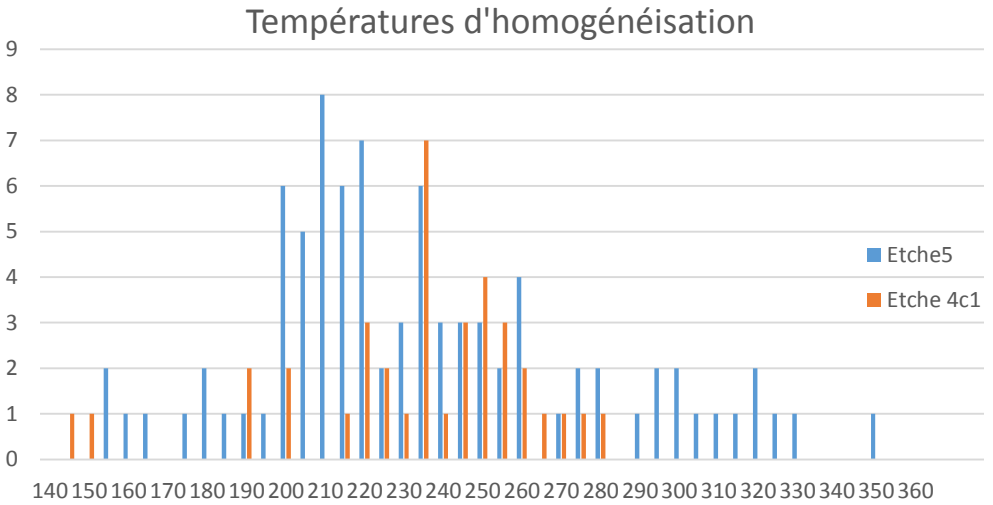


Salinité

Microthermométrie



14 à 20 wt.%



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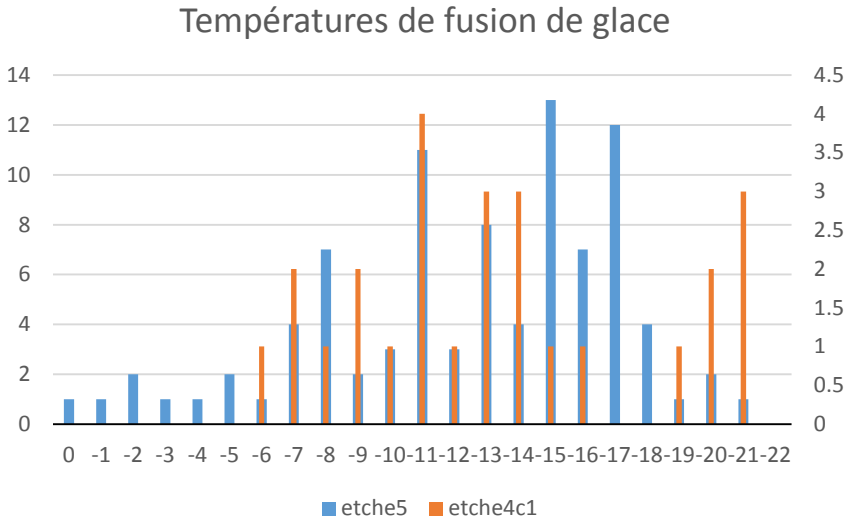
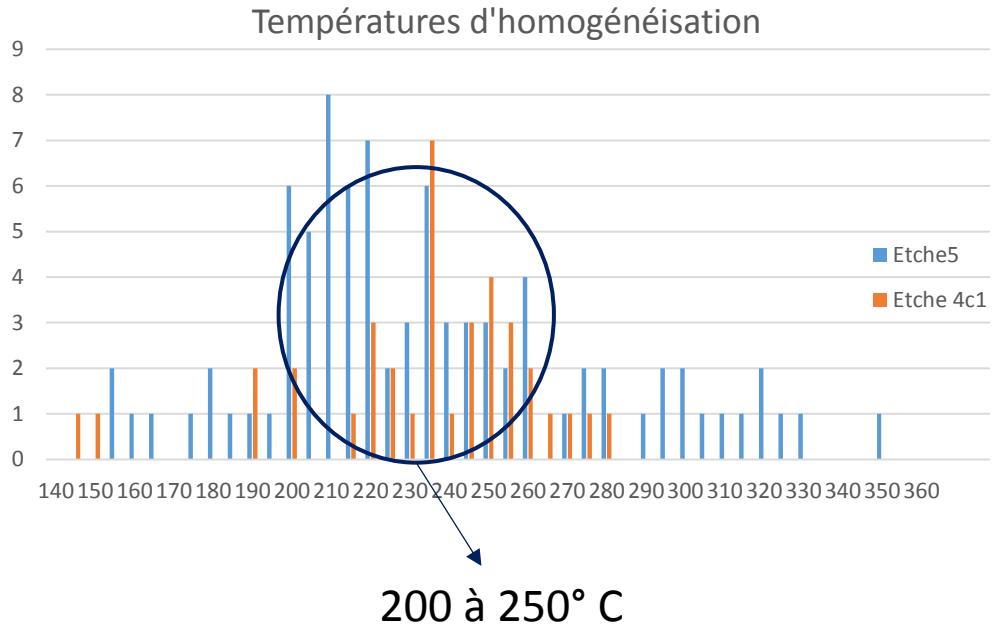
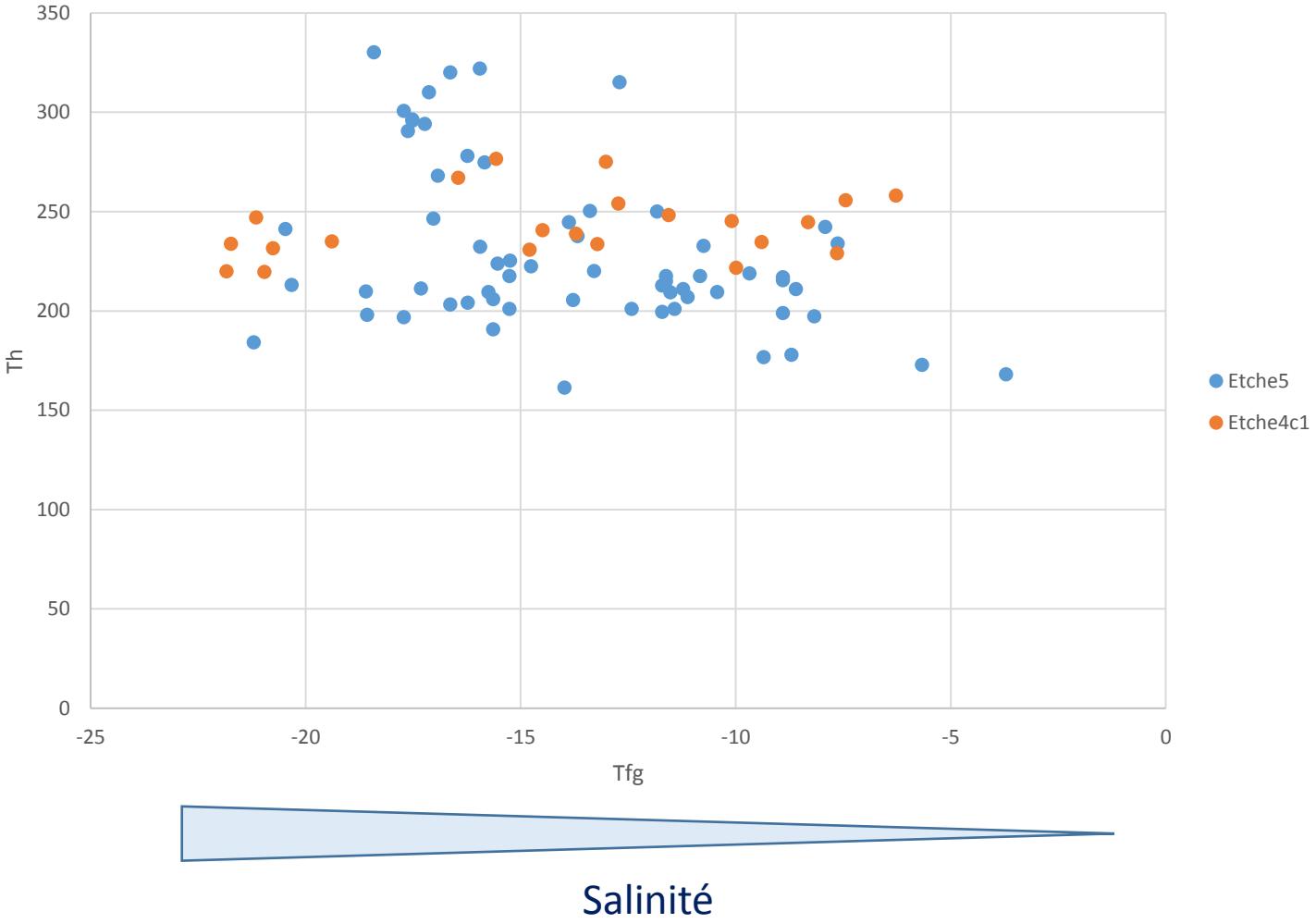
Microthermométrie



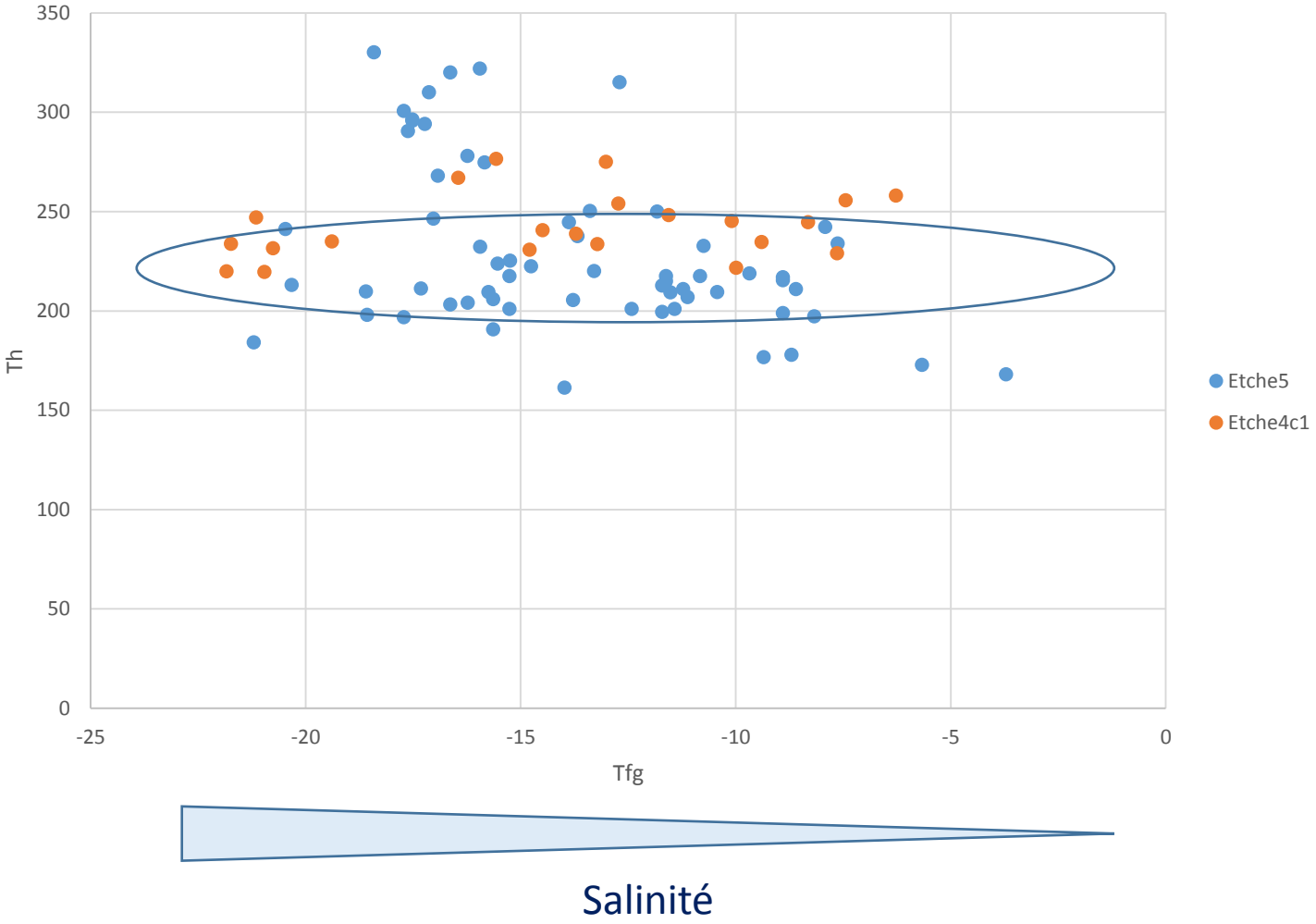


Salinité

Microthermométrie

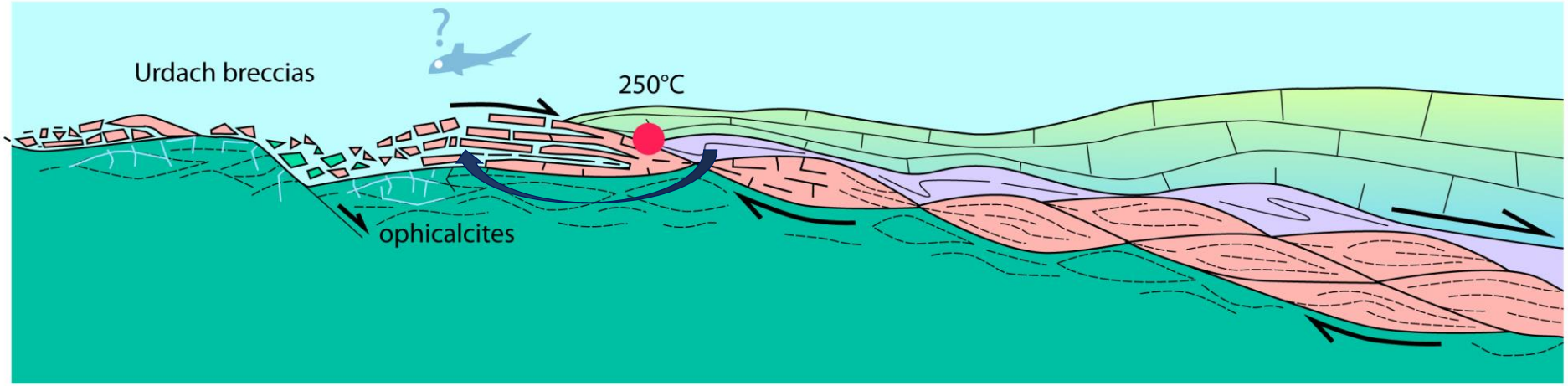


Microthermométrie



Travail restant…

- Microthermométrie sur les autres échantillons
- Spectroscopie Raman
- Interprétation : - Traçage des isochores
    - Détermination des conditions PT de piégeage
    - Intégration des données dans un modèle géologique



Merci pour votre attention