

Evolution long terme du climat et des chenaux en Bassée

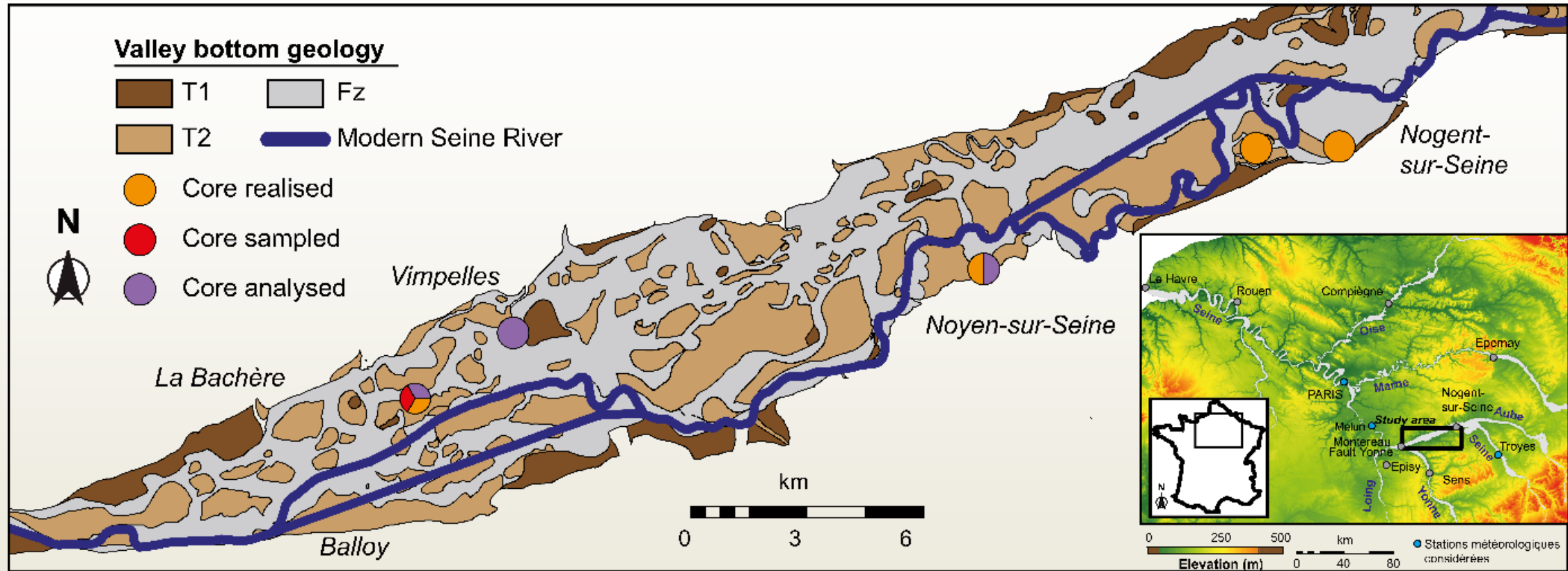
Matthias Delmetz (Mines Paris PSL), Jean-Louis Grimaud (Mines Paris PSL), Arnaud Huguet (Metis), Damien Huyghe (Mines Paris PSL),



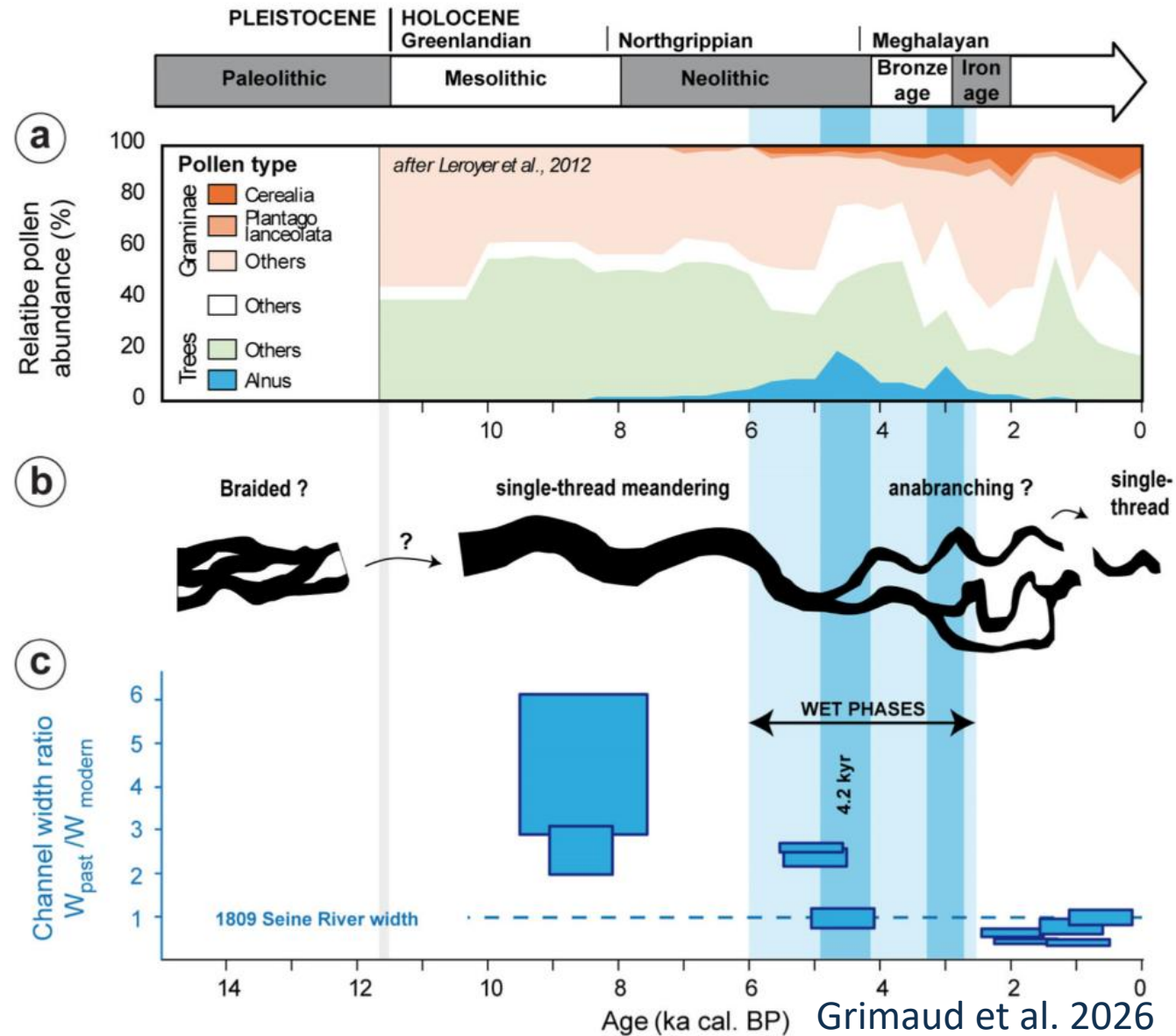
Objectifs de l'action

- Documenter à très long-terme le fonctionnement d'un territoire tourné ou non vers la rivière.
- Affiner le calendrier de l'évolution du réseau fluvial dans la plaine alluviale de la Bassée
- Faire le lien avec **l'évolution climatique** et les aménagements par l'Homme.

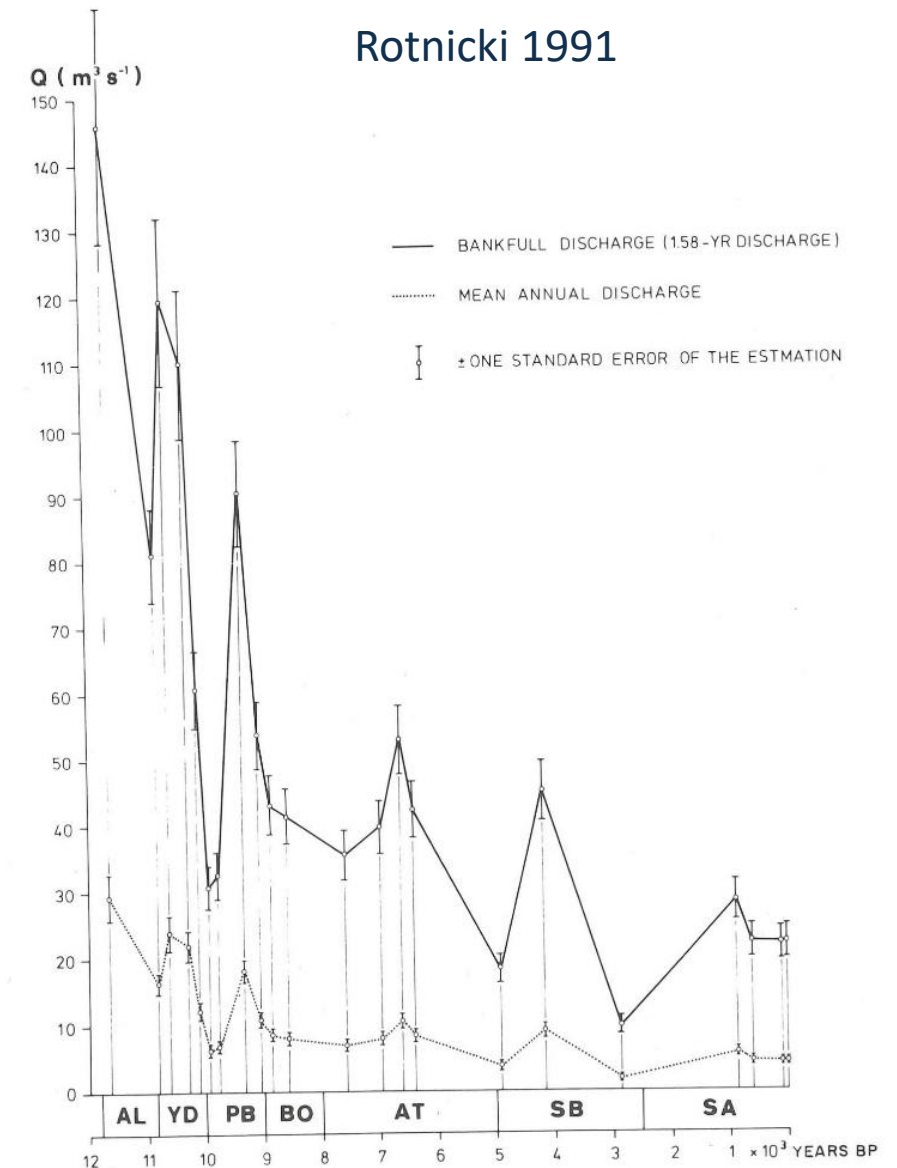
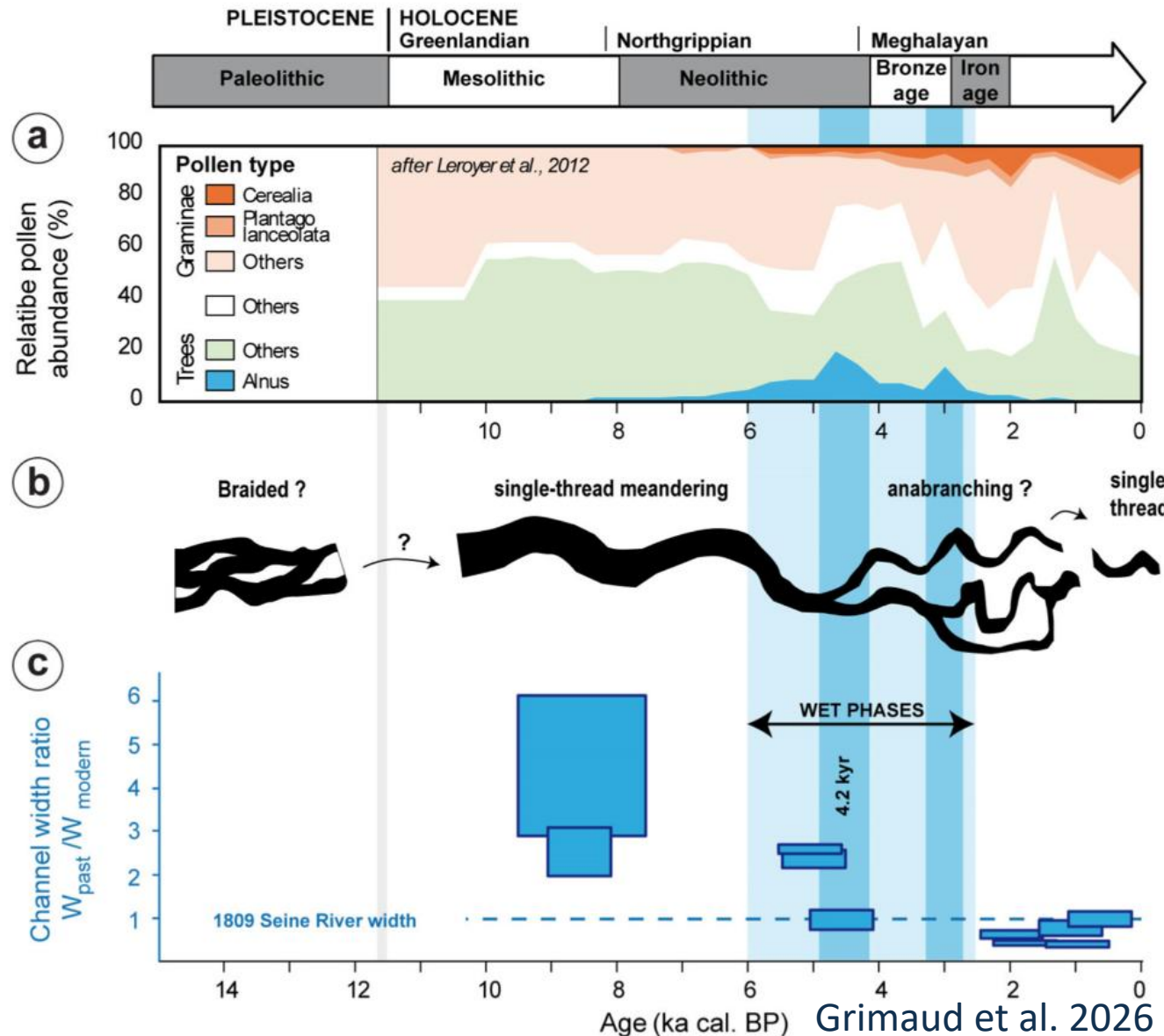
La Bassée : contexte géomorphologique



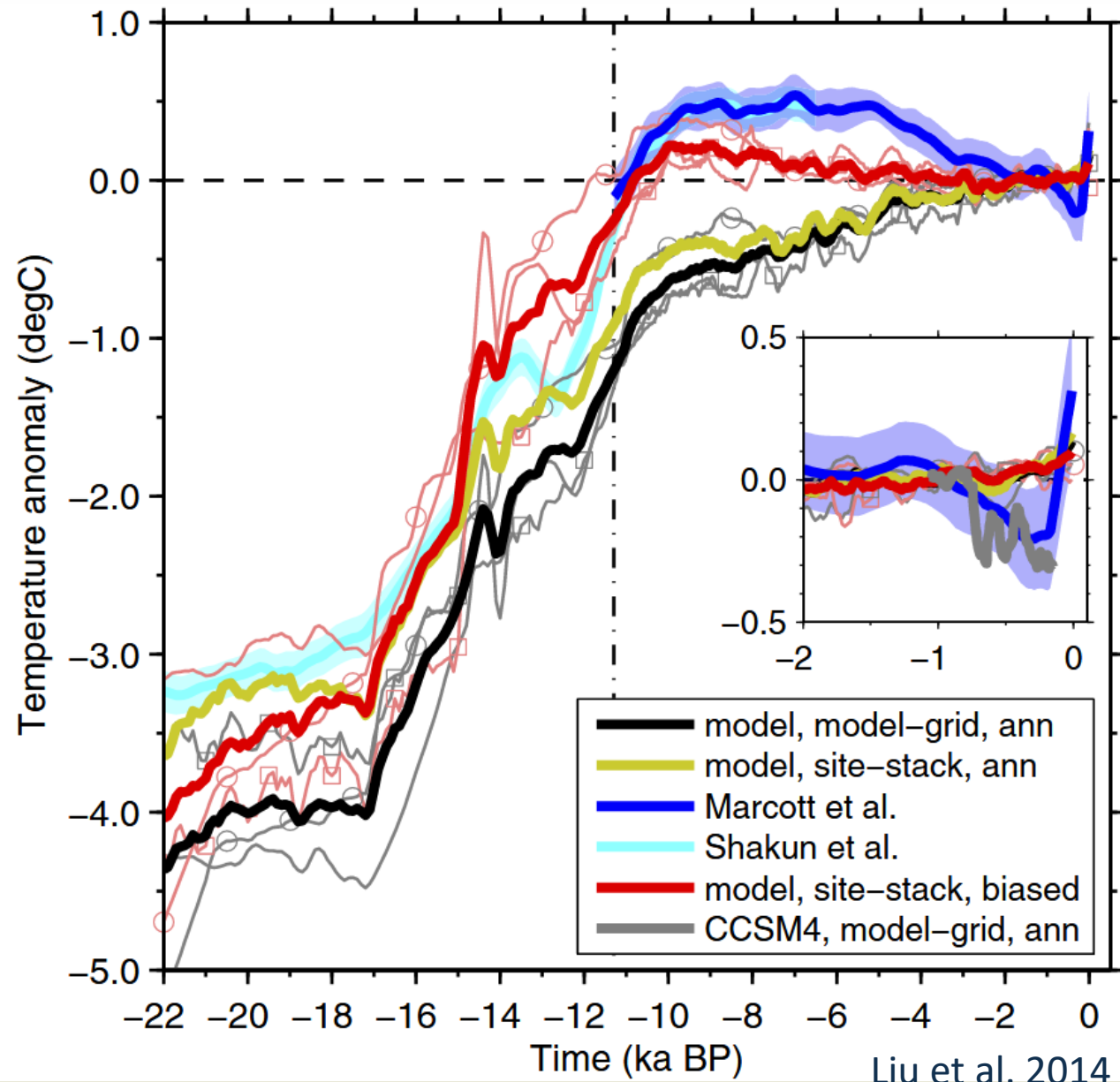
La Bassée : évolution du réseau fluvial



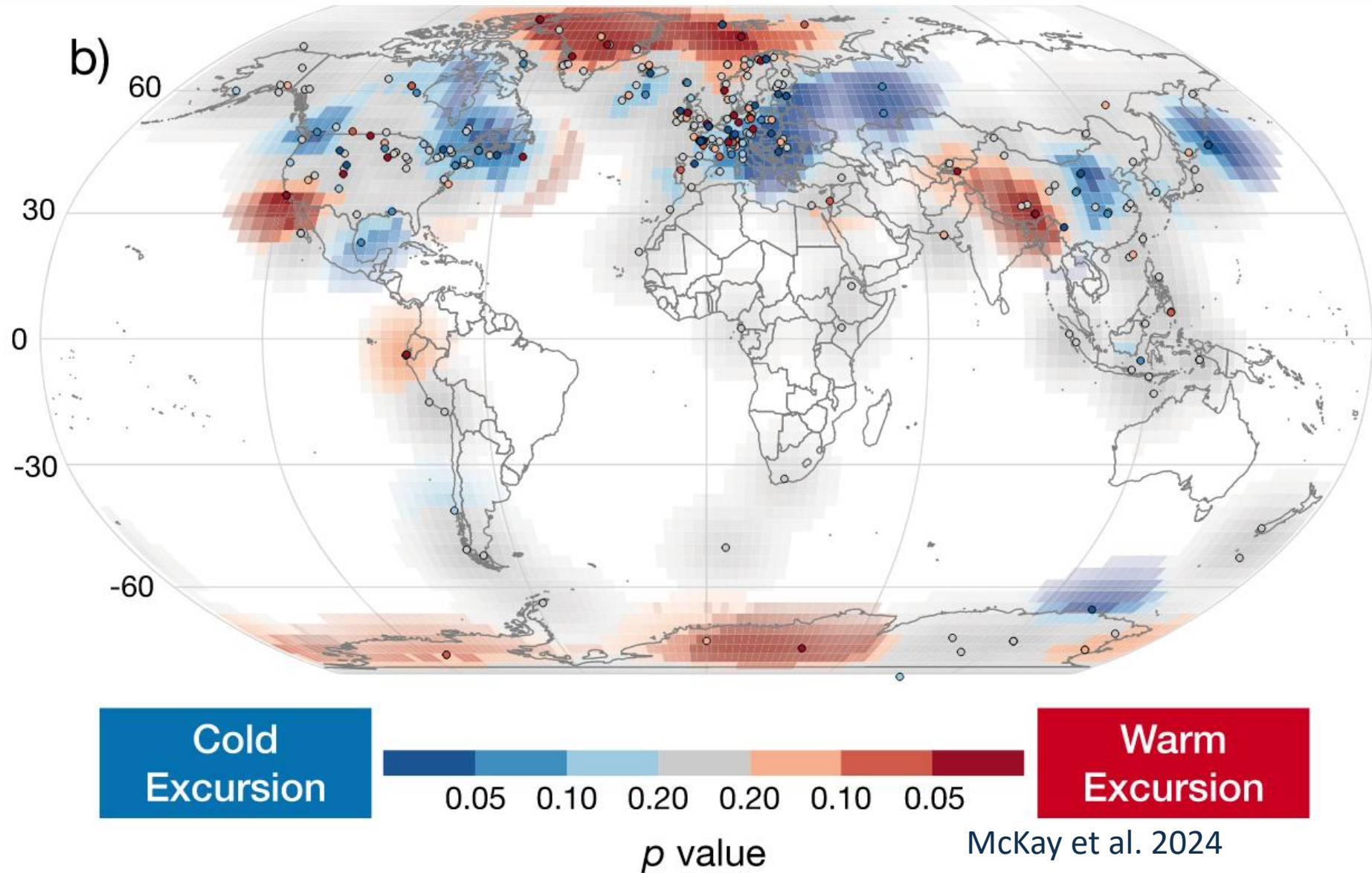
La Bassée : évolution du réseau fluvial



Problématique : restituer la température locale

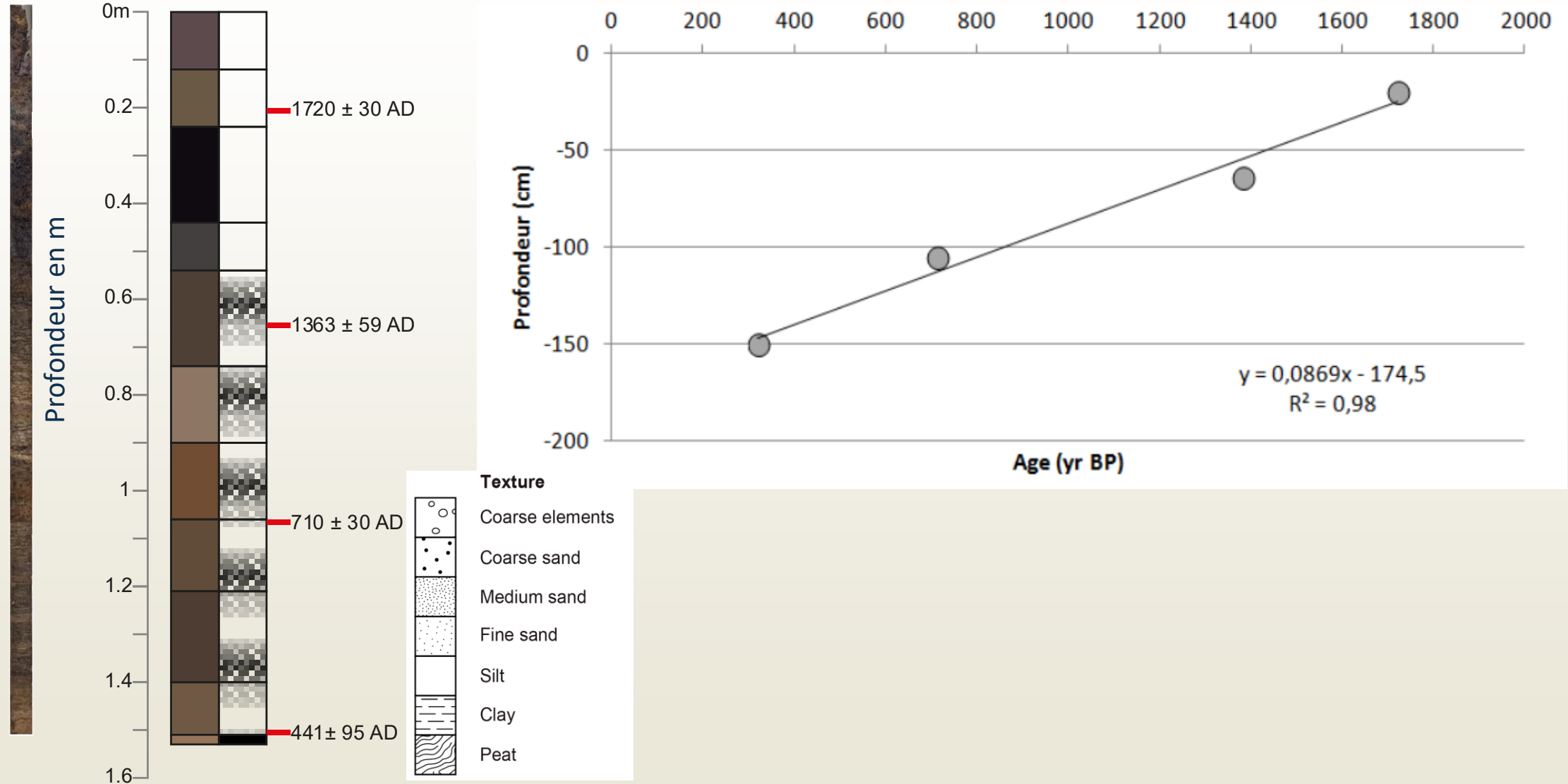


Problématique : restituer la température locale



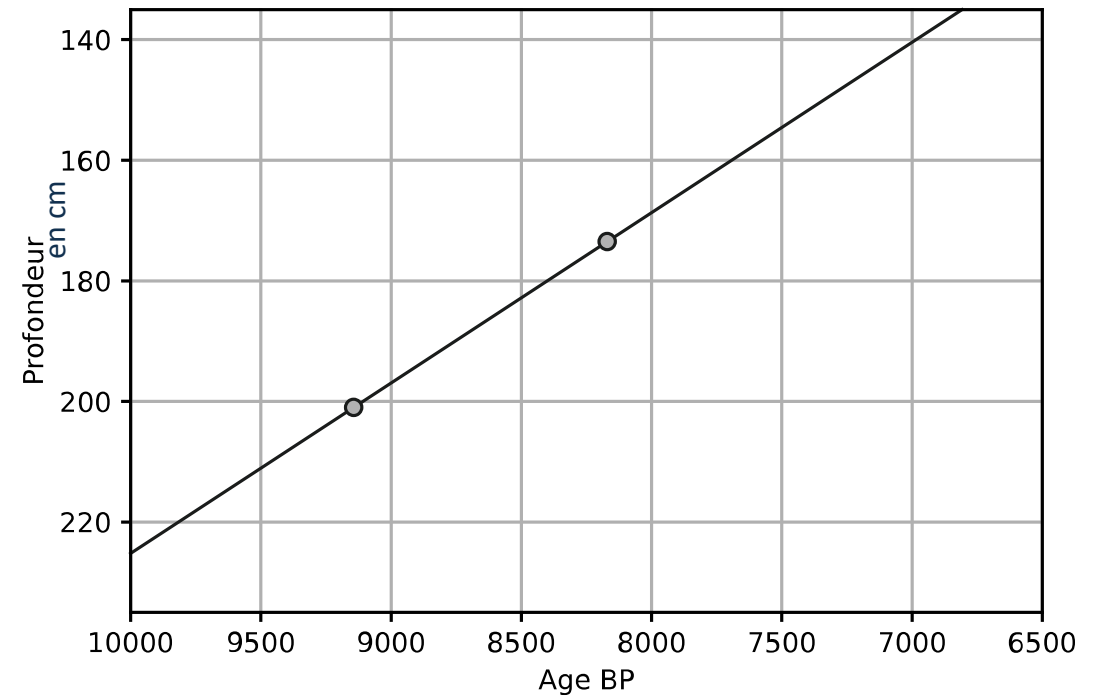
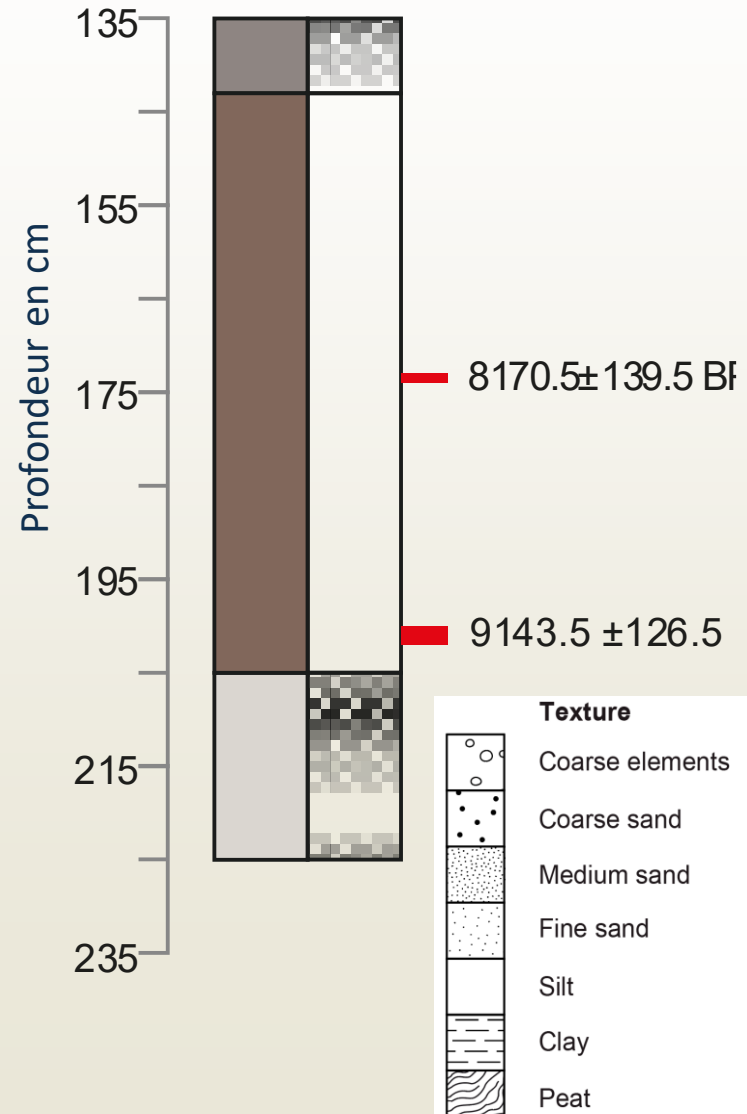
Méthodologie : échantillonnage et description

Vimpelles

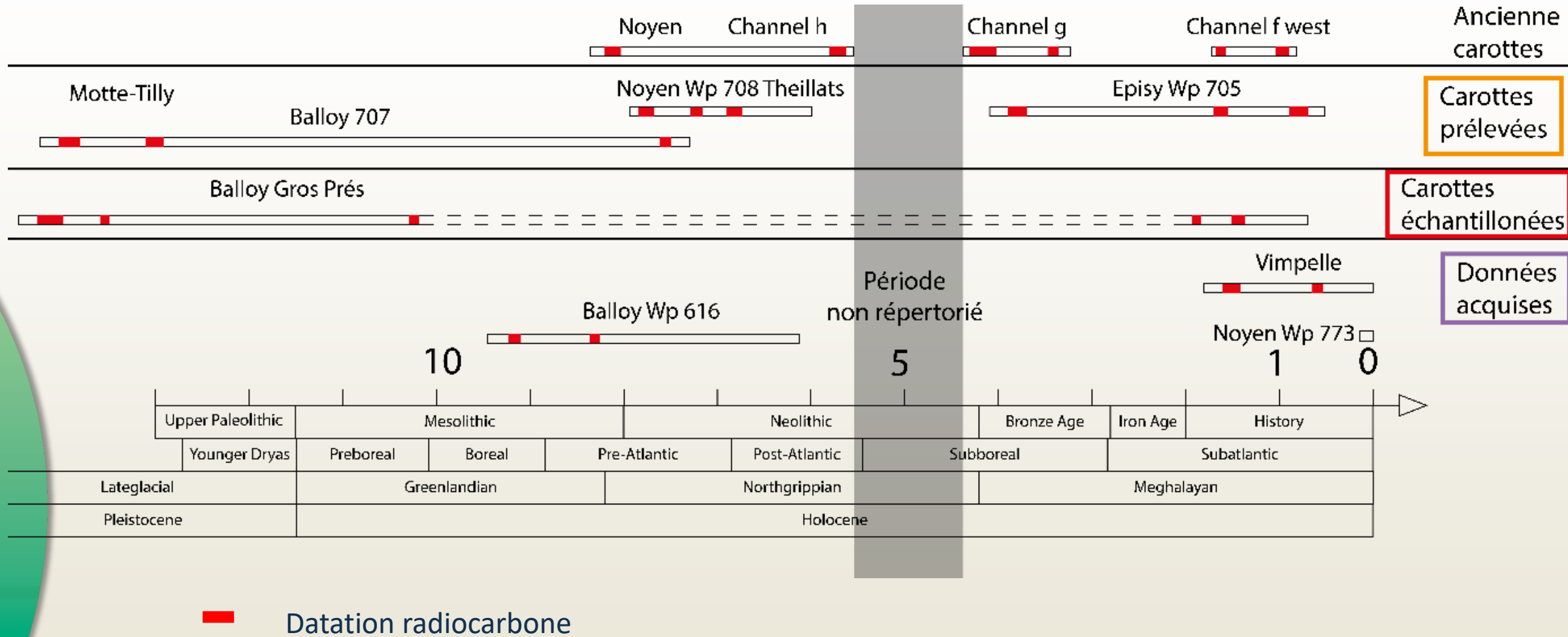


Méthodologie : échantillonnage et description

Balloy



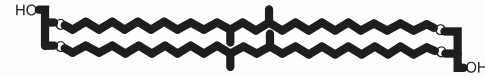
Données disponibles



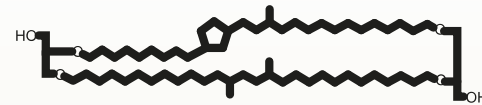
Méthodologie : GDGTs

Glycerol
Dialkyl
Glycerol
Tetraeter

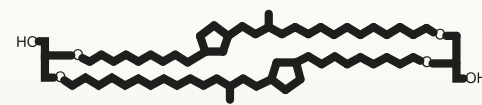
Ia
 m/z 1022



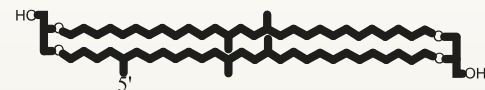
Ib
 m/z 1020



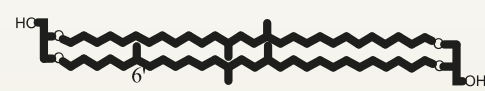
Ic
 m/z 1018



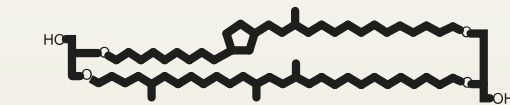
IIa
 m/z 1036



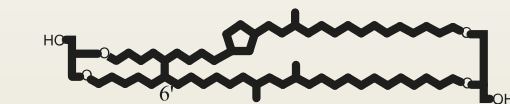
IIa'
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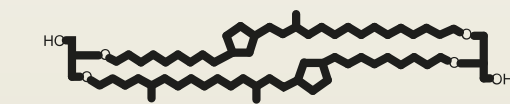
IIb
 m/z 1034



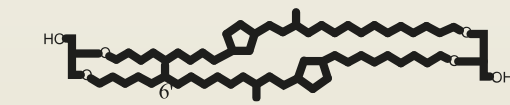
IIb'
 m/z 1034



IIc
 m/z 1032



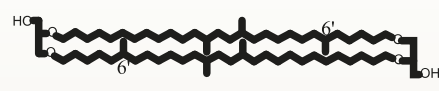
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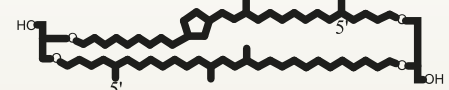
IIIa
 m/z 1050



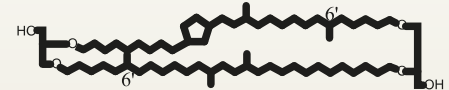
IIIa'
 m/z 1050



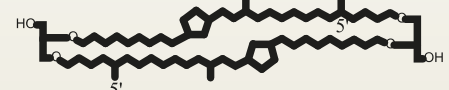
IIIb
 m/z 1048



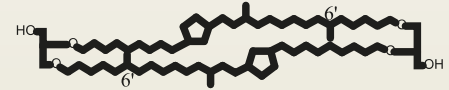
IIIb'
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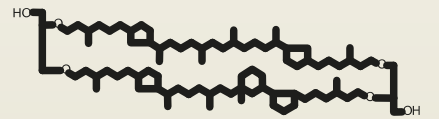
IIIc
 m/z 1046



IIIc'
 m/z 1046



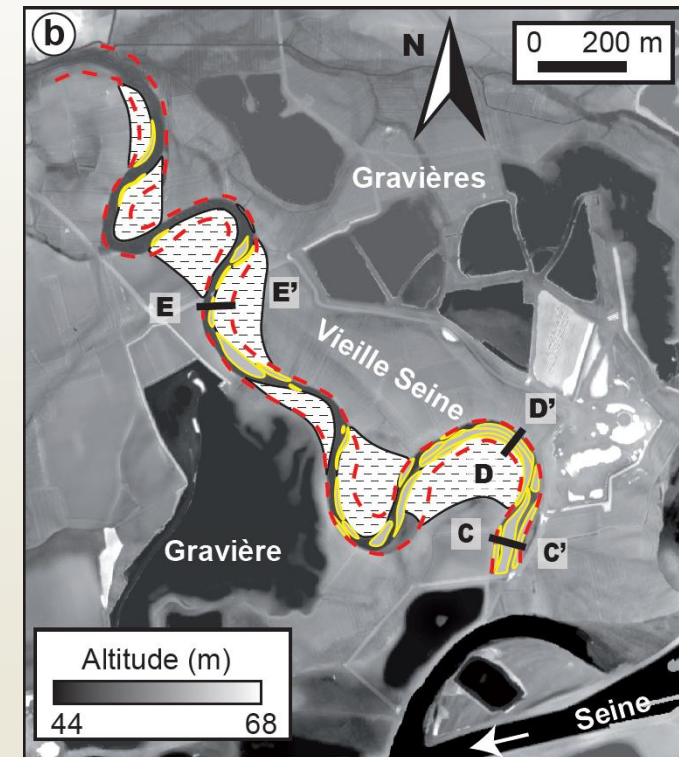
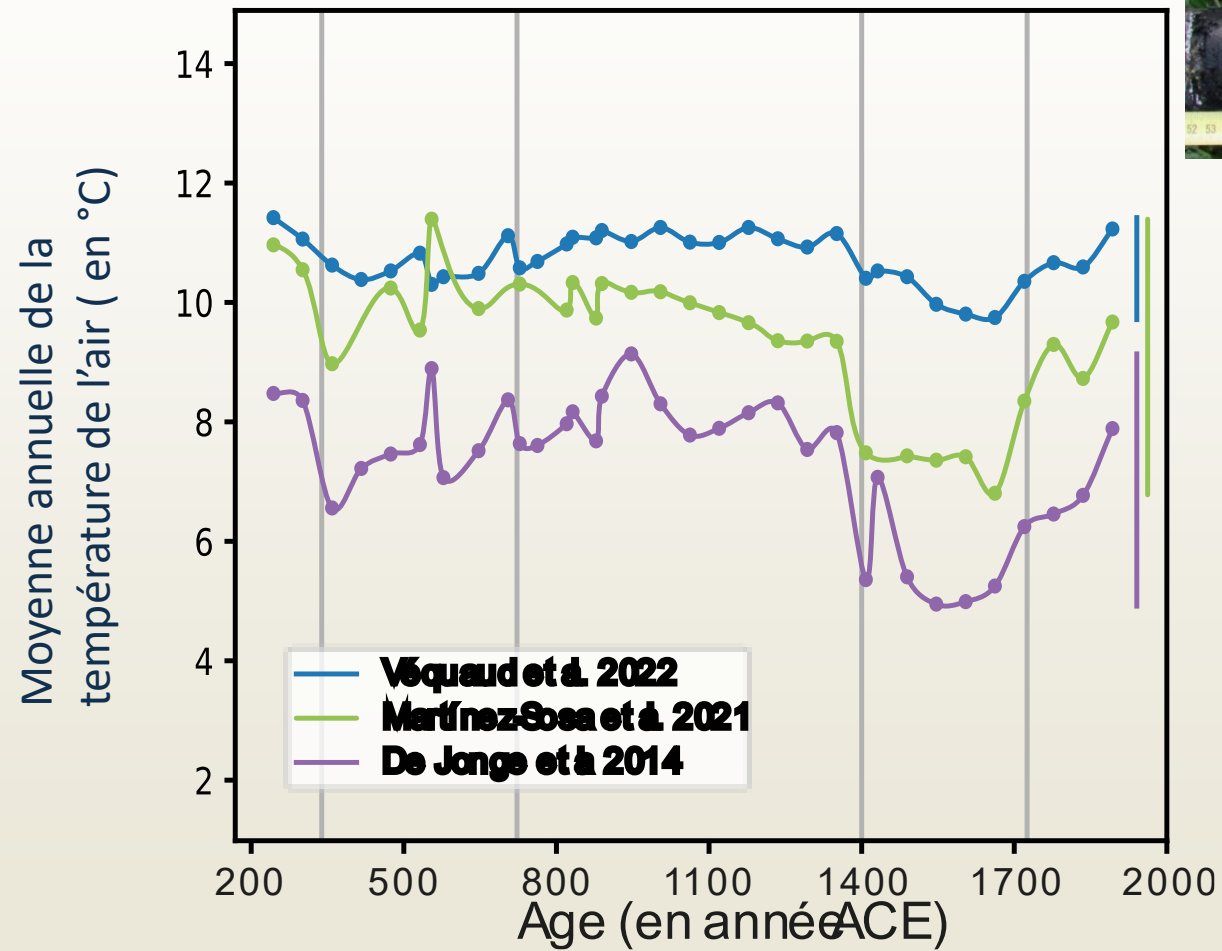
IV
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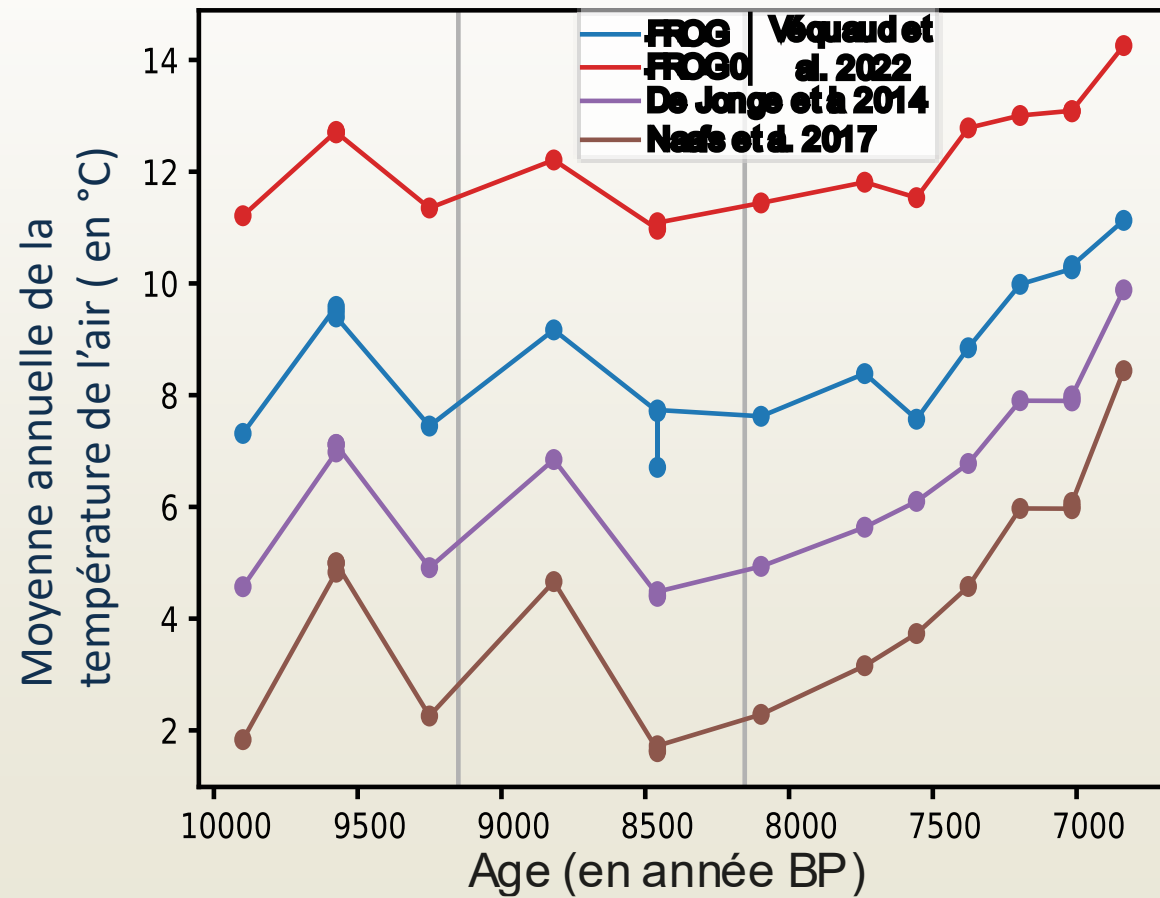
Résultats GDGTs

Vimpelles



Résultats GDGTs

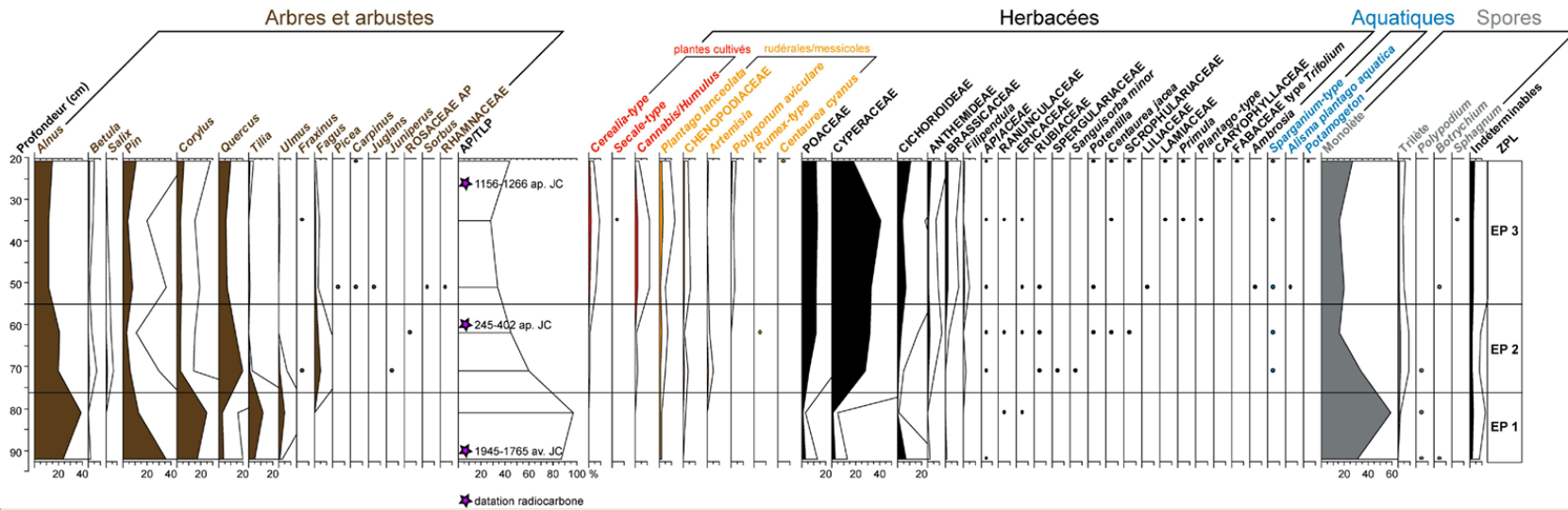
Balloy



Conclusions préliminaires

- Analyse en cours sur différentes échelles de temps
- Cohérence variations historiques
- Objectif : construire une courbe Holocène de **variations** de températures (MAAT)
- A terme utilisation GDGTs pour autres proxys (pH, Humidité) => objectif : quantifier les variations des niveaux de nappes phréatique

Perspective : le marais d'Episy



Merci de votre attention

