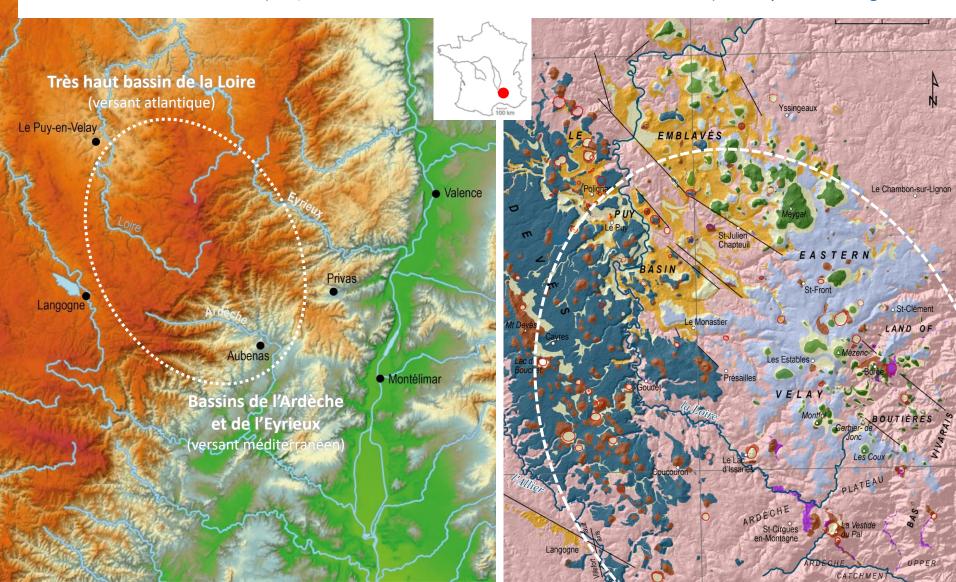


STUDY OF THE PLEISTOCENE AND HOLOCENE SEDIMENTARY ARCHIVES OF THE VERY UPPER LOIRE BASIN AND ITS RHONE MARGINS:

Paleoenvironmental reconstruction and society-environment co-evolution

Secteur cristallin volcanisé (Velay oriental: 15-6 Ma / Devès: 3-1 Ma / Bas-Vivarais: 200-15 ka) de moyenne montagne



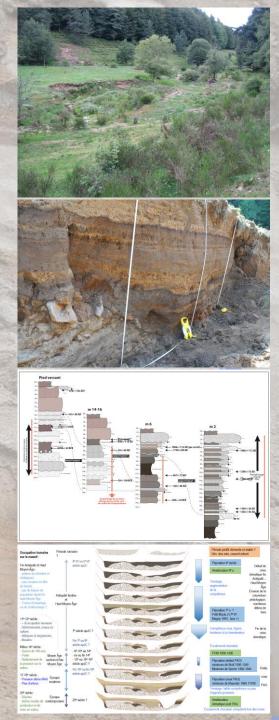
2 complementary lines of research

Axis 1: The short time of the Holocene



Reconstruct the history of erosion (hydrosedimentary flows) and landscapes...

... to take into account natural - climate, etc. - and anthropogenic forcings and to consider the modalities of society-environment co-evolution







Axis 2: the long time of Middle and Late Pleistocene

Close link with the recent volcanism of the Bas-Vivarais:



Environmental history recorded by lakes archives: volcanic dams and maars linked to recent volcanism in the Bas Vivarais

Contribution to the dating of volcanism and construction of a micro-regional tephrostratigraphic reference sequence

Relationships between Palaeolithic Humans and their environment













Sites Axis 2

Volcanic dams and paleo-environment

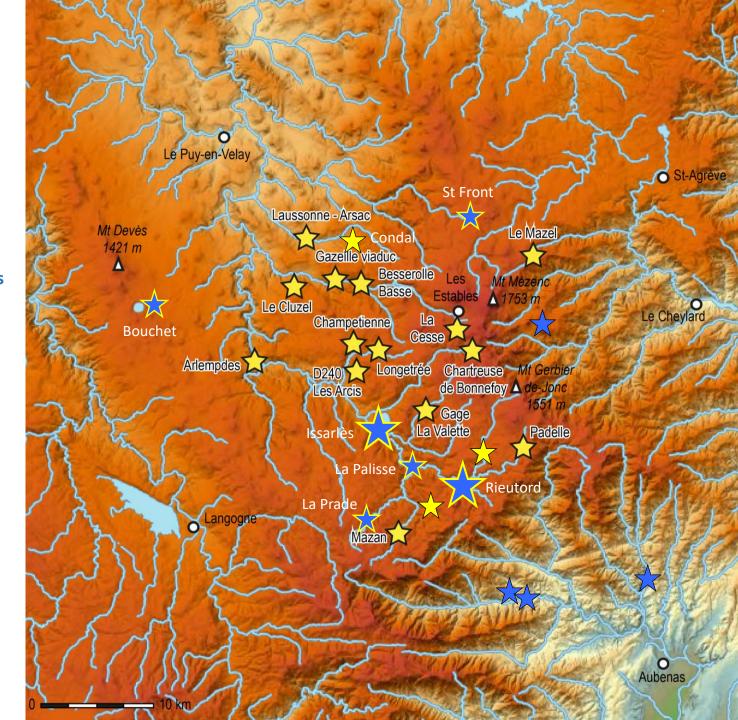


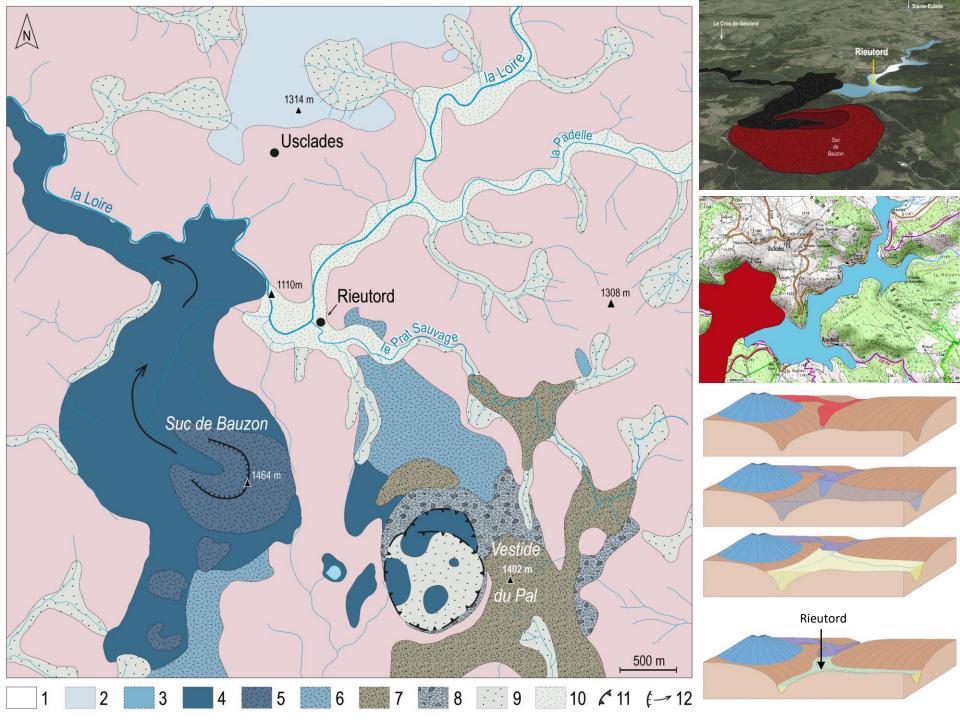
Sites Axis 1

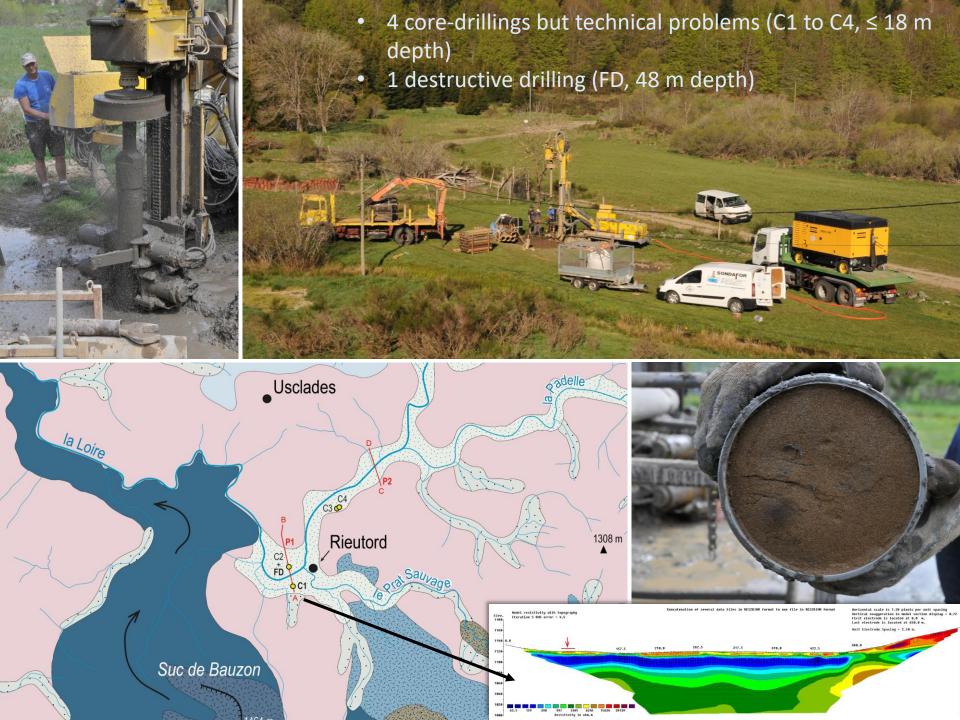
Accumulations in thalwegs and geoarchaeology



Mixed sites

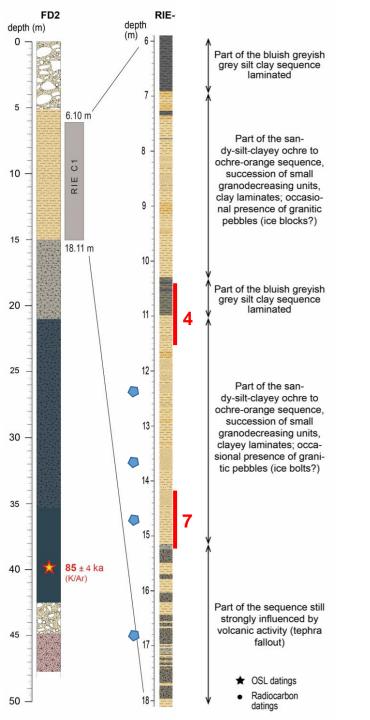


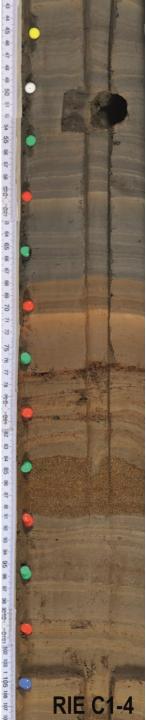












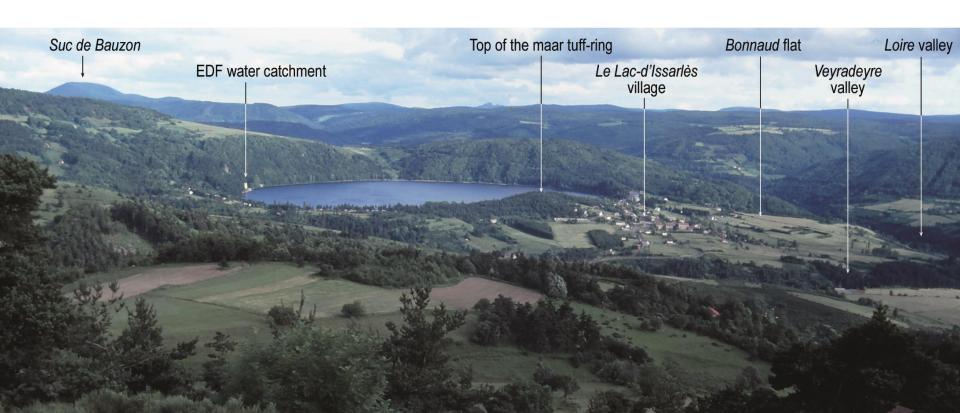


A laminated lacustrine sequence between 42 and 18 ka

- a succession of silty-clayey to silty-sandy graded bedding cm to dm units and some sandy detritic and/or tephra interbeded levels
- cm to dm stones locally included in the deposits lower half:
 - Dropstones in cold conditions
 - Phreatomagmatic origin in this case, which maar and where?

Contexte géologique et âge du maar

Rapide présentation du site



Séquence de cœur de lac – Sismique réflexion

Mouvements de masse (MWD), turbidites (T), potentiels téphras (R)

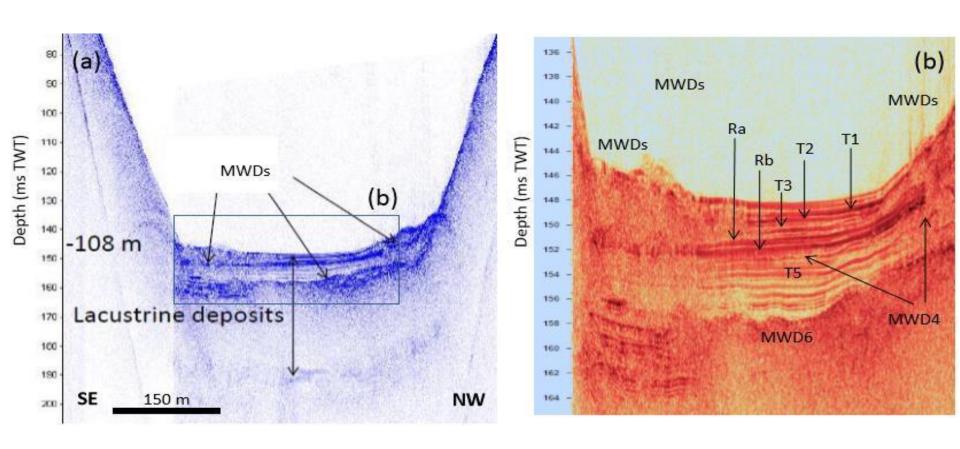


Figure 13 : Profil sismique du maar d'Issarlès montrant les différents remaniements du matériel sédimentaire (MWD) avec leur tubidites distalales (T) et deux traces de de réflecteurs plus forts (Ra et Rb) ; a) fenêtre du logiciel Seisee et b) fenêtre du logiciel EDIFISegy. L'echelle verticale est données en temps (milliseconde temps double).

Séquence de cœur de lac - Carottage



Séquence de cœur de lac - Carottage



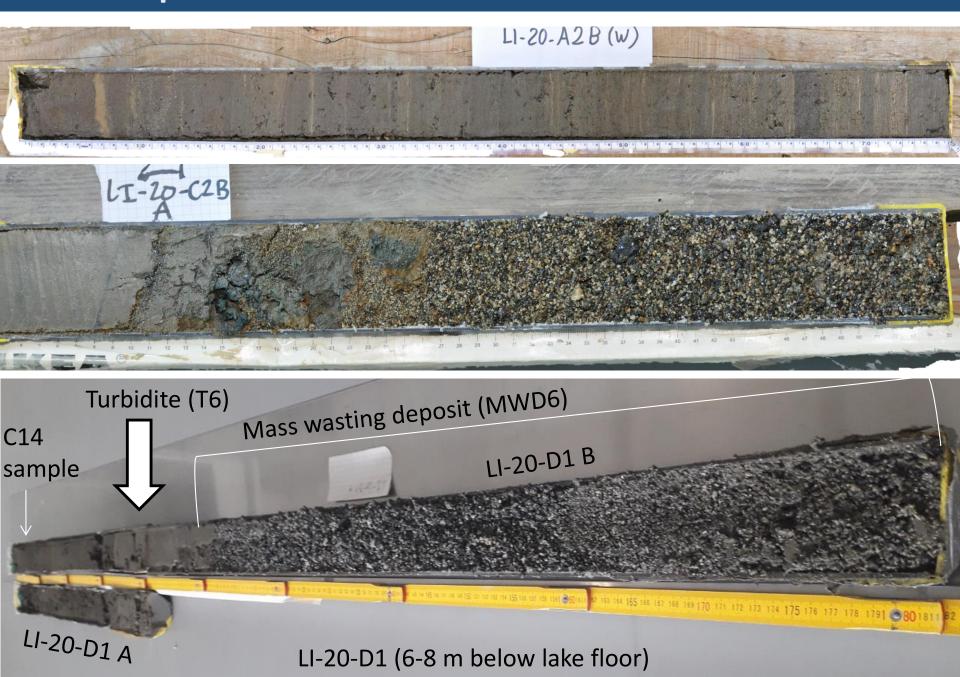


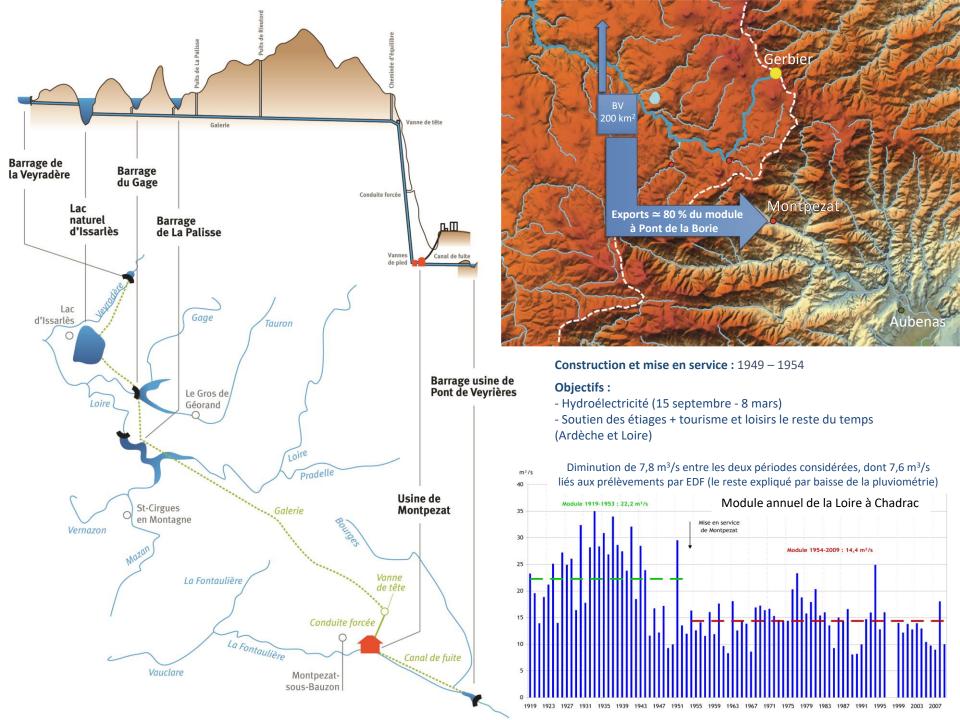






Séquence de cœur de lac - Faciès des sédiments









Les questions, pour résumer : (Merci pour vos conseils et suggestions)

 Comment retenir le train de tige du Cobra à la remontée ?

• Est-il normal que nous n'ayons pas pu mieux carotter Rieutord (trop gros diamètre ? Problème des terrains ou de la pression d'eau ?)

- Est-il normal d'incliner le mas pour retirer les carottes ?
- Recherchons tiges pour GEOTOOL GTR 780



