

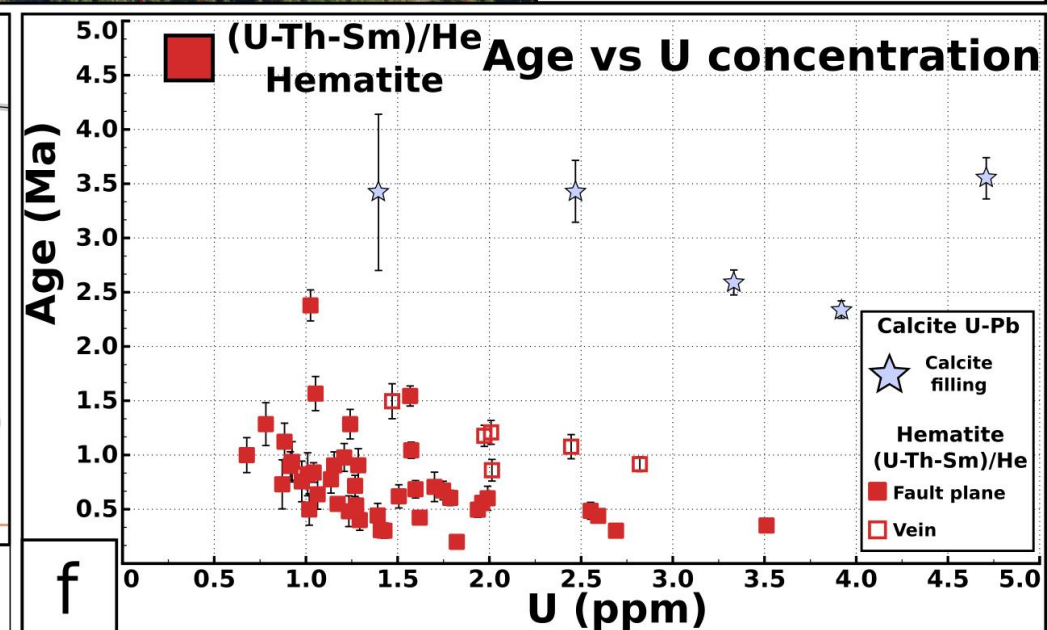
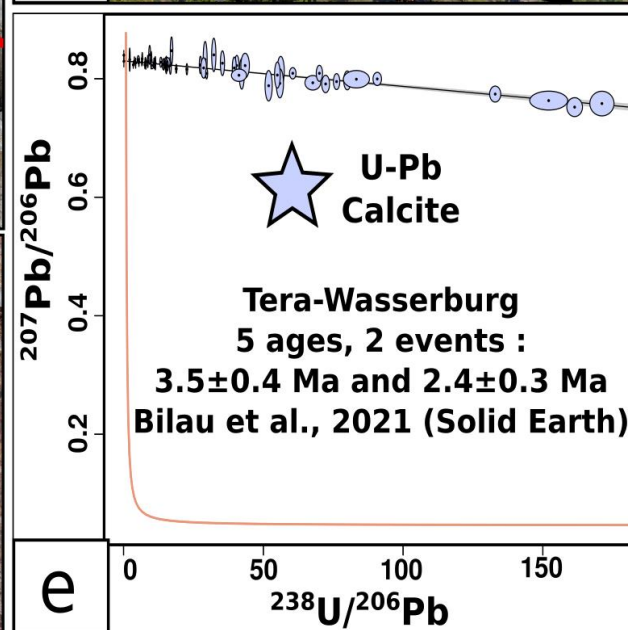
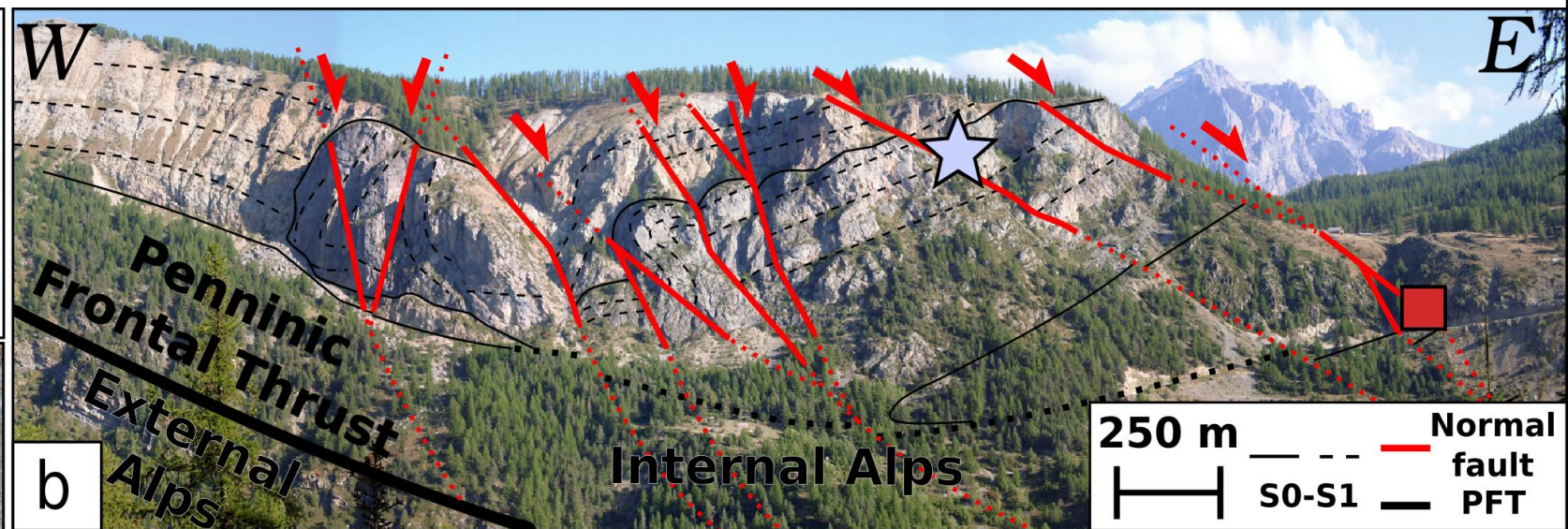
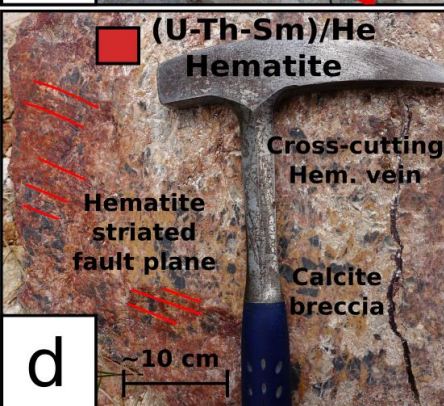
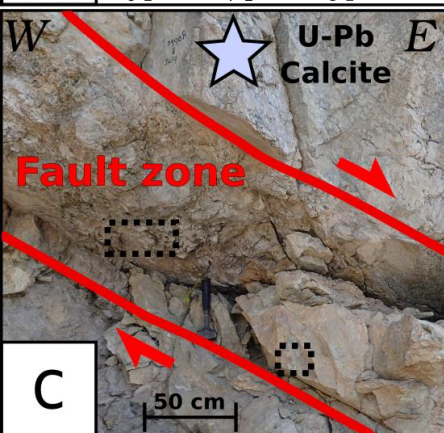
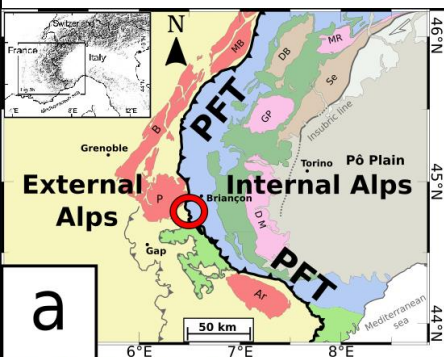
Timing of fault gouge formation and fluid-rock interaction during tectonic inversion of the Penninic Frontal Thrust (SW Alps)

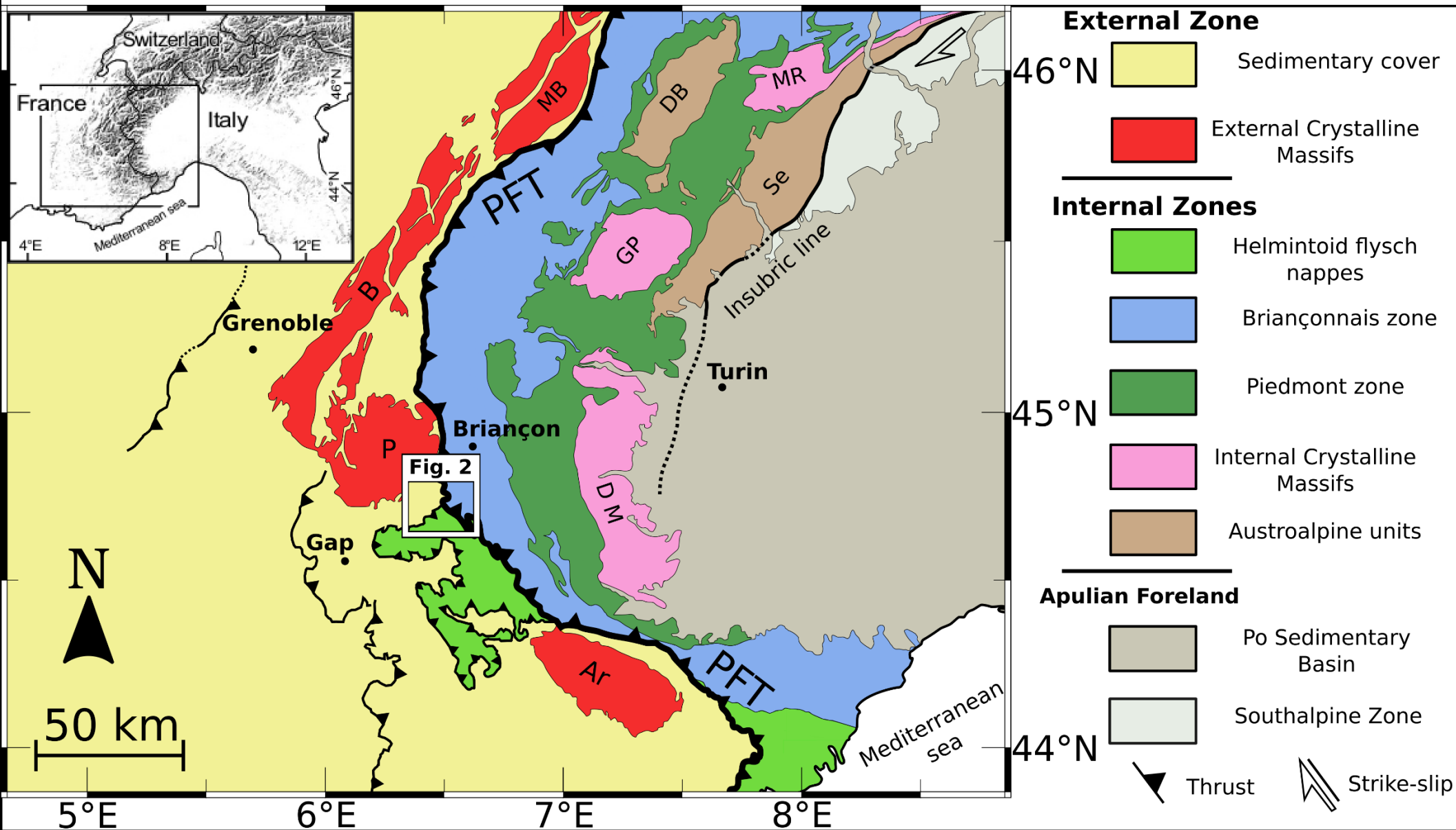
Antonin Bilau, Yann Rolland, Stéphane Schwartz, Nicolas Godeau, Abel Guihou, Pierre Deschamps, Cécile Gautheron, Rosella Pinna-Jamme, Benjamin Brigaud, Xavier Mangenot, Aurélie Noret, Jérémie Melleton, and Thierry Dumont



ISTerre

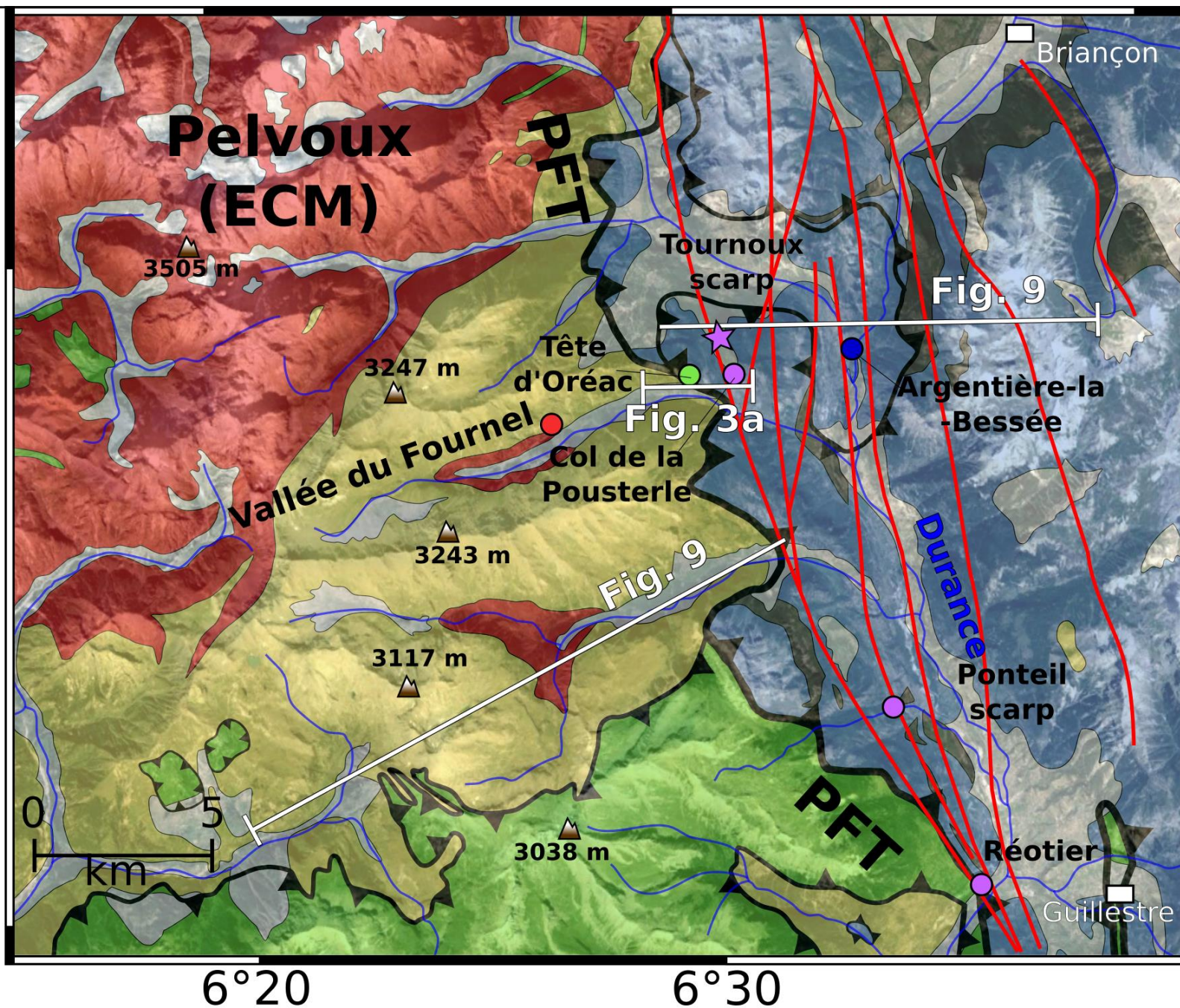






44°50

44°40



Quaternary

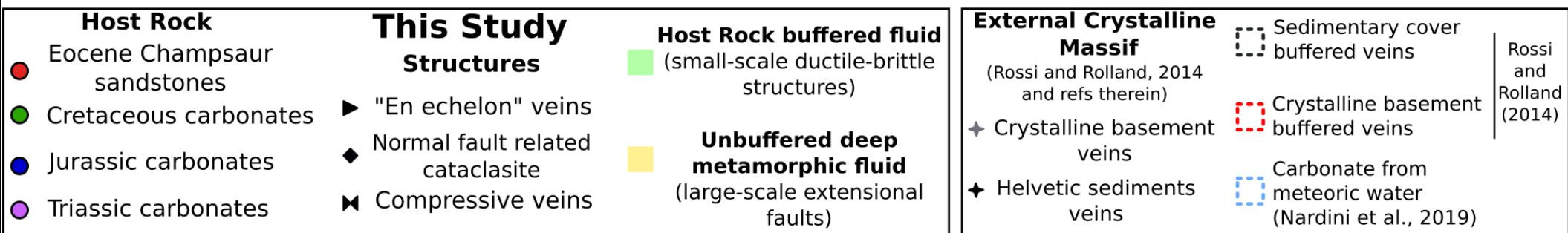
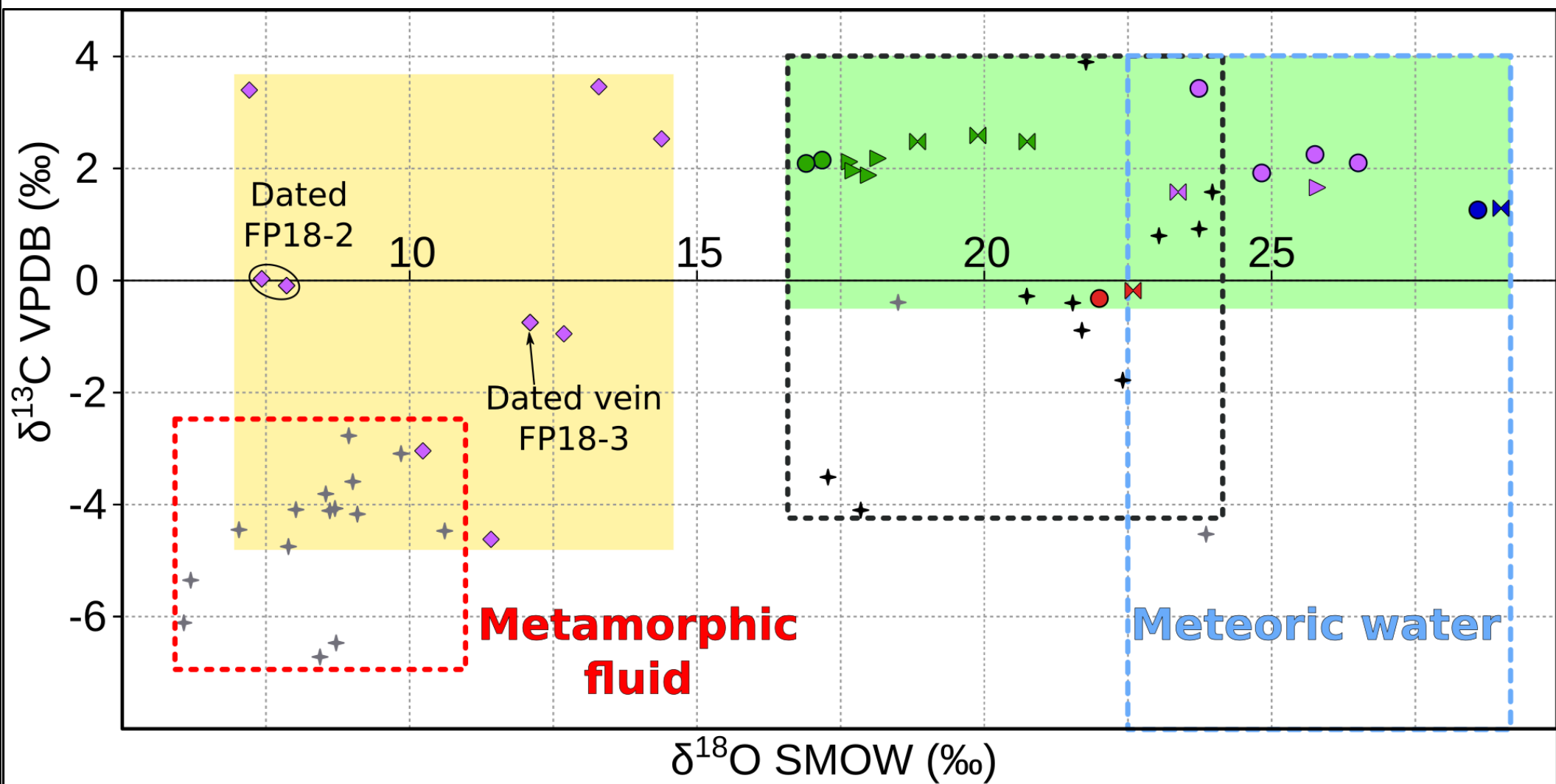
External Zone Sedimentary Cover
(grès du Champsaur) External
Cristalline Massifs**Internal Zone** Helmintoid flysch
nappe

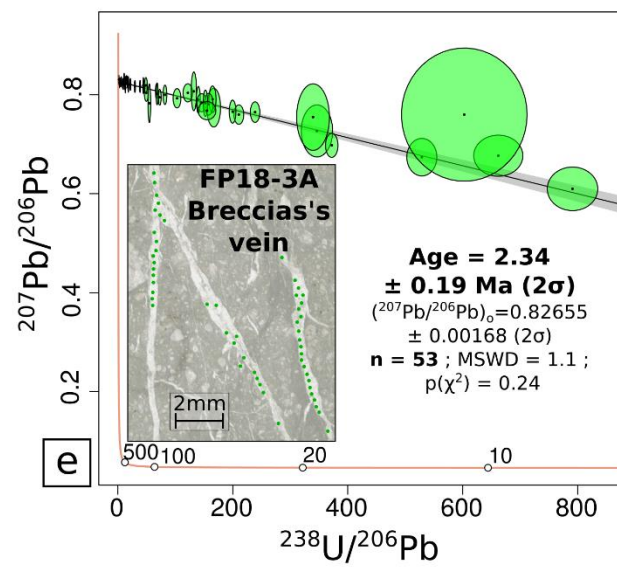
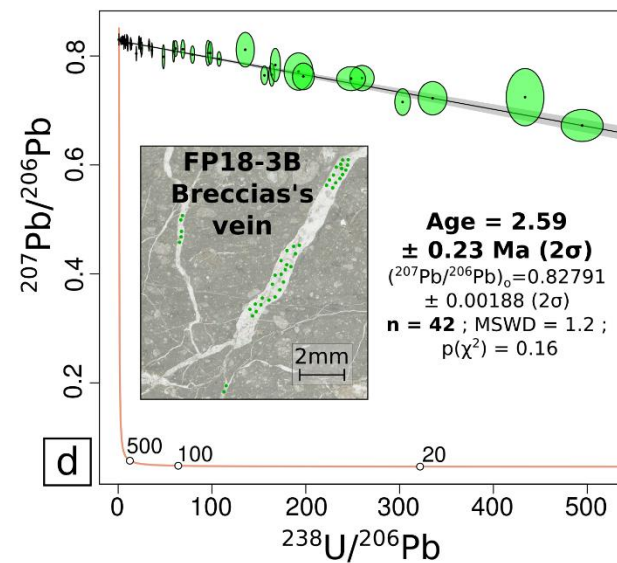
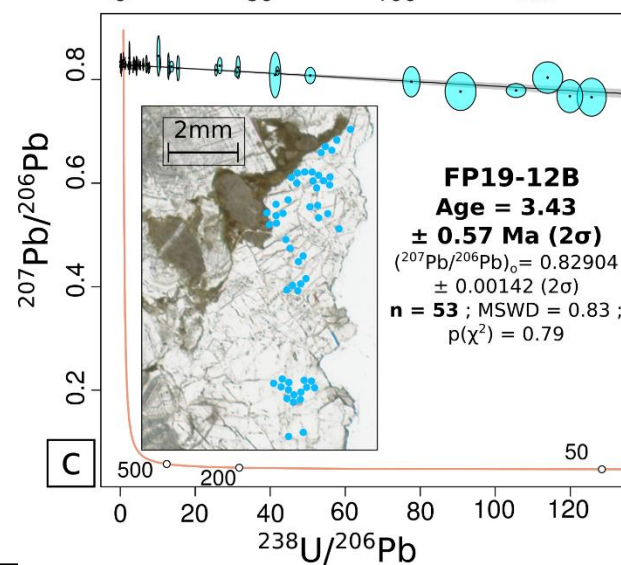
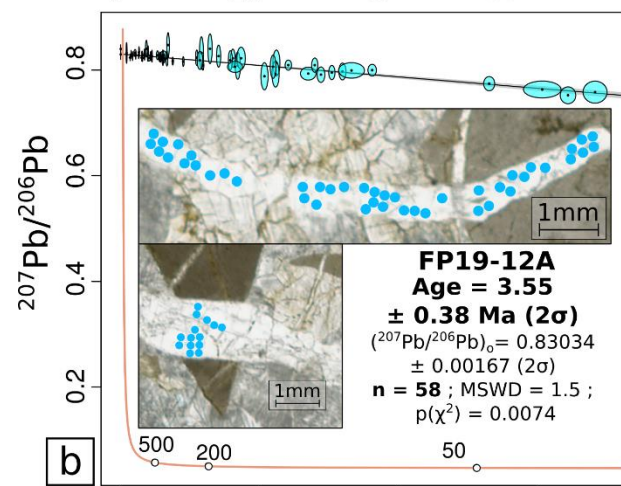
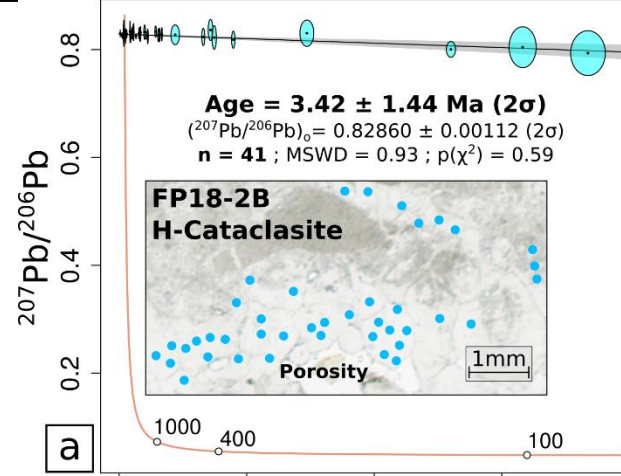
Briançonnais zone

Zone Houillère

Thrust

 Extensional
High-Durance
Fault System Dated site
(cataclasite) Stable isotope
samples





Present Day Miocene-Pliocene Oligocene

