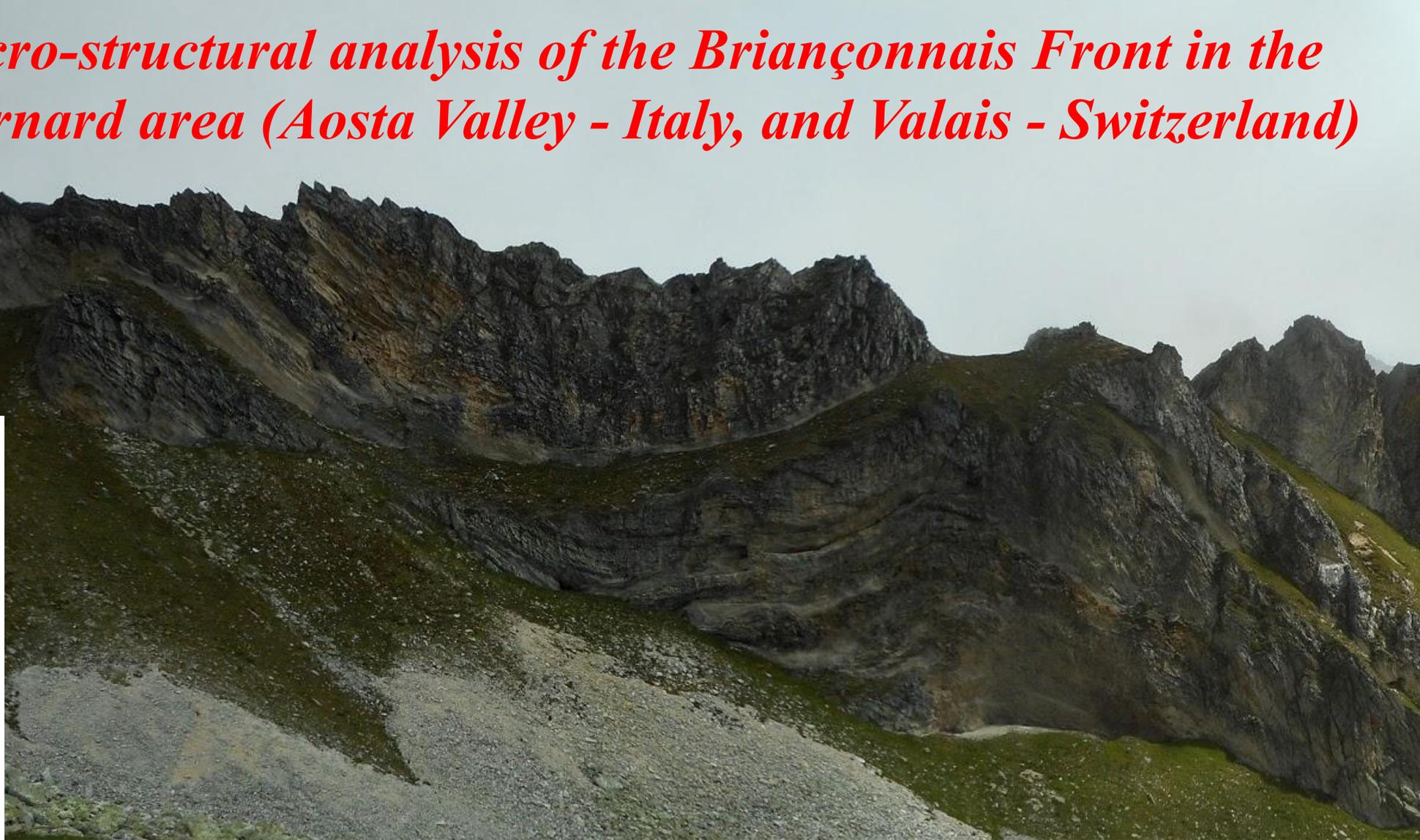
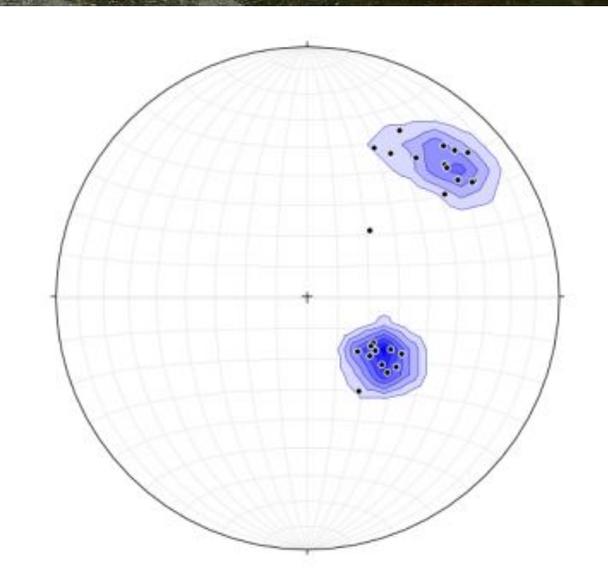


# *Meso- and micro-structural analysis of the Briançonnais Front in the Grand Saint Bernard area (Aosta Valley - Italy, and Valais - Switzerland)*



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<sup>2</sup>LTS-HT, Treviso, Italy



# Geological map

## Litostratigraphic units

### Houillere zone

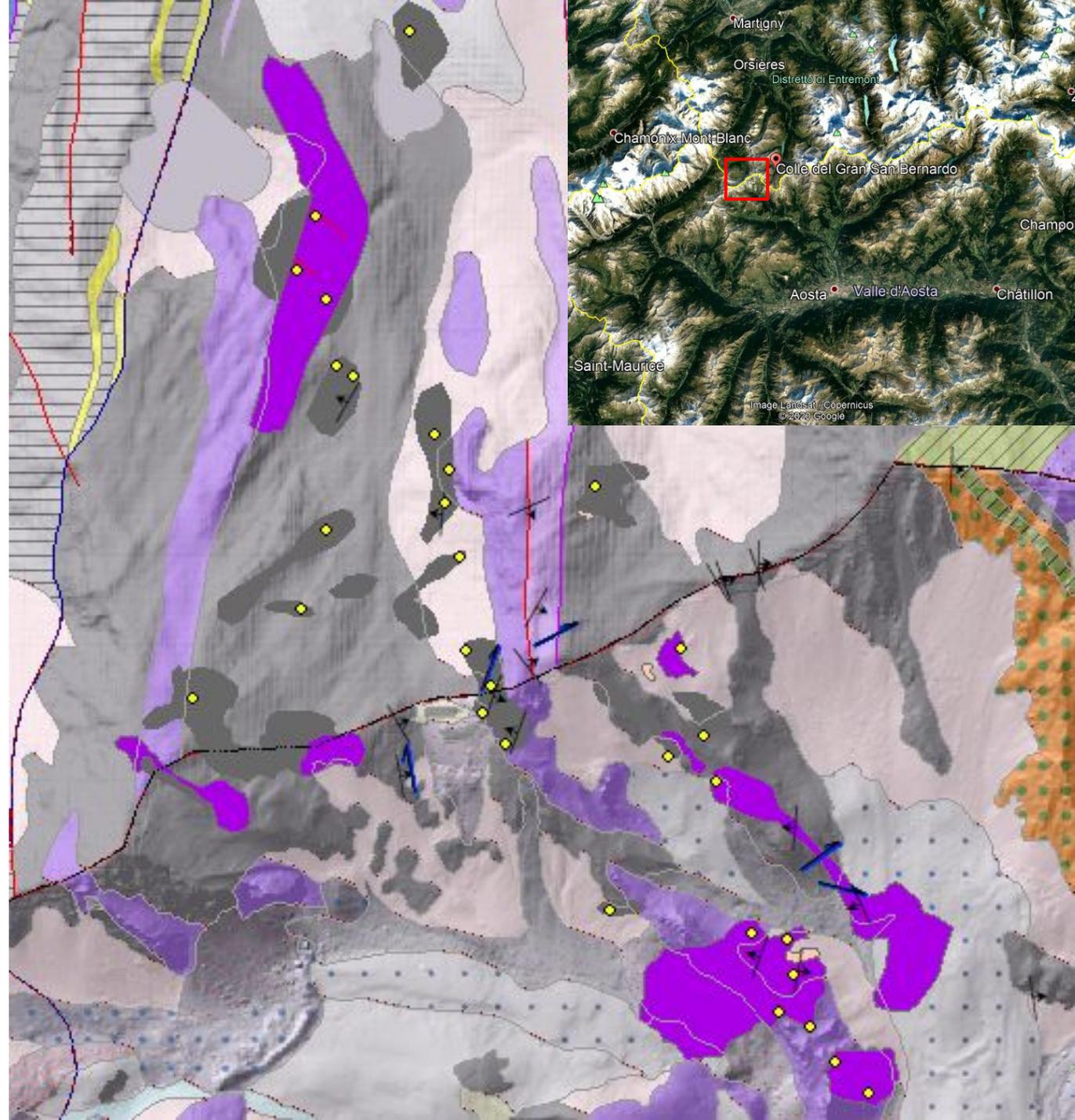
-  Black shales
-  Metamorphic sandstone and quartzites
-  Albitic Metabasite
-  Albitic Gneisses
-  Calcirudite

### Pierre Avois Melange

-  Dolomite

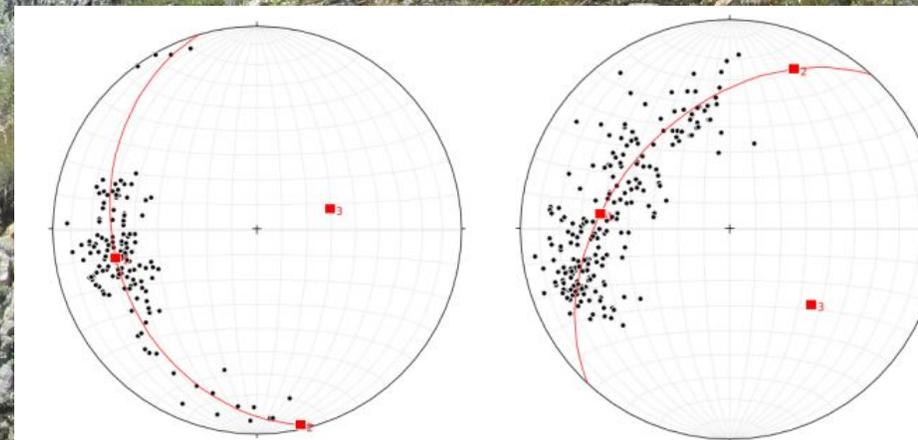
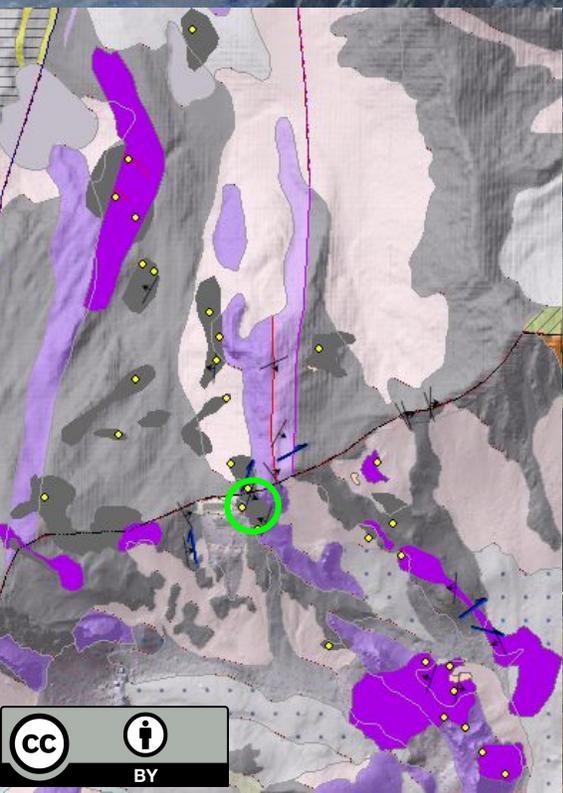
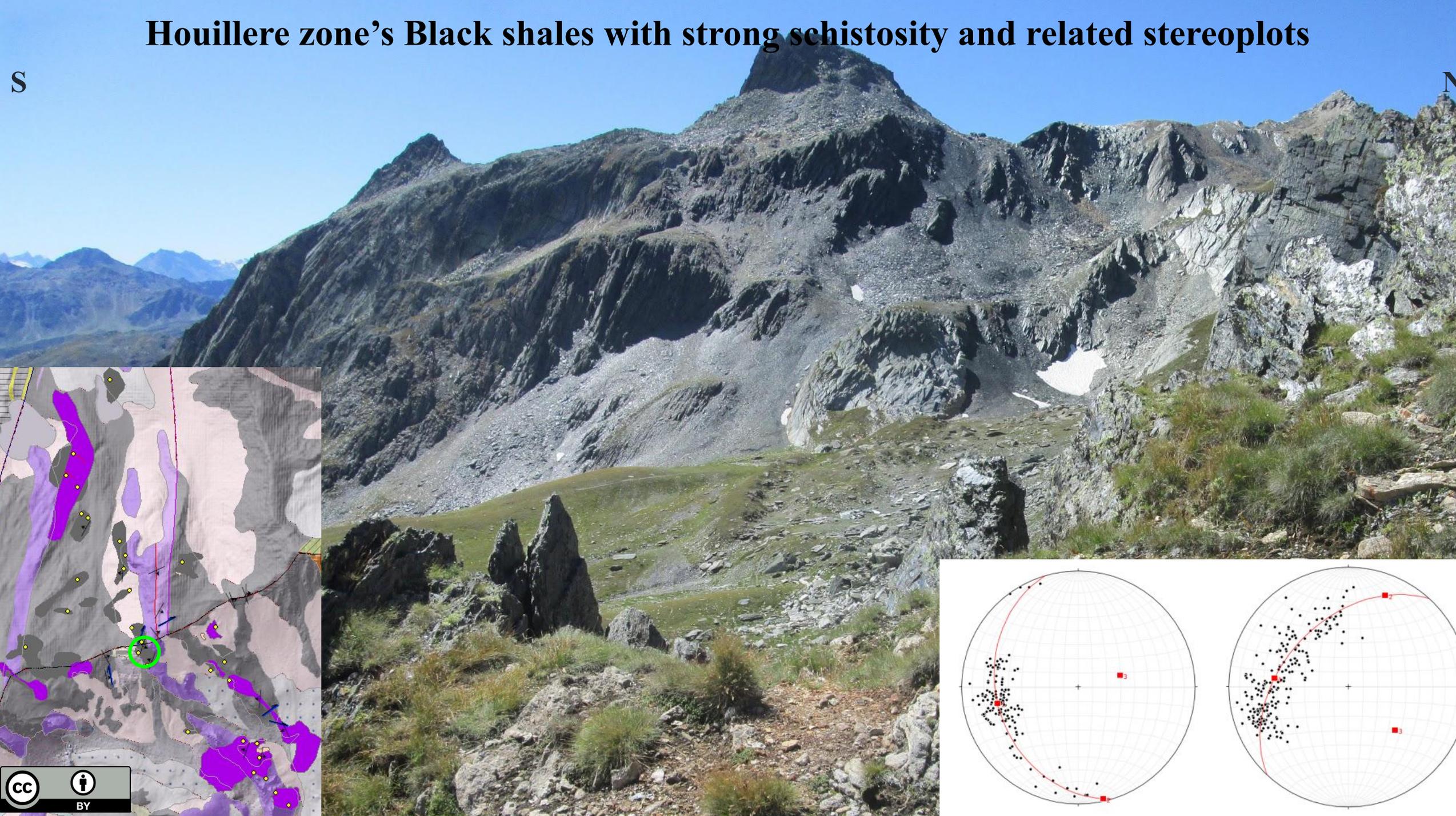
## Structural elements

-  Fault
-  Litologic boundary
-  Italy-Switzerland border
-  Field trip Stop
-  Schistosity
-  Fold axis



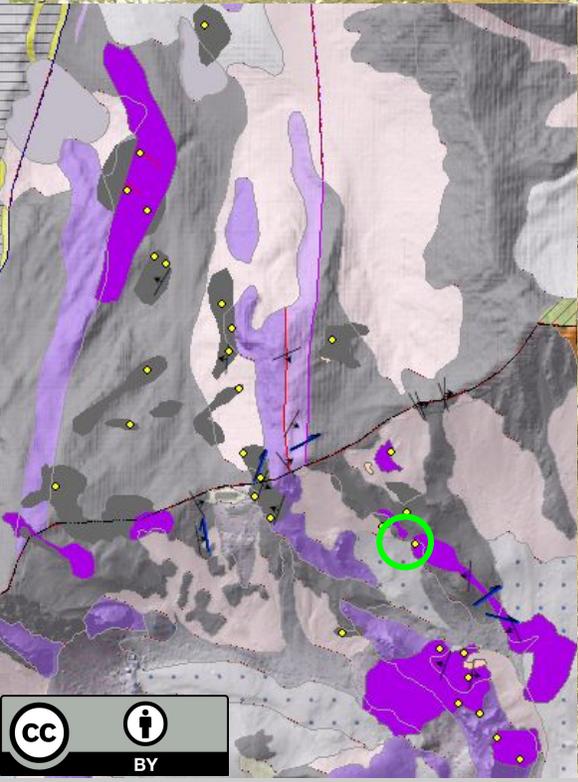
# Houillere zone's Black shales with strong schistosity and related stereoplots

S

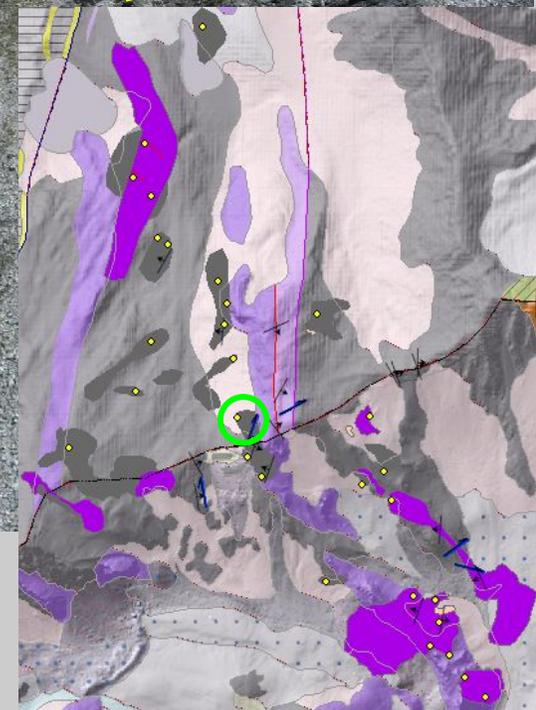
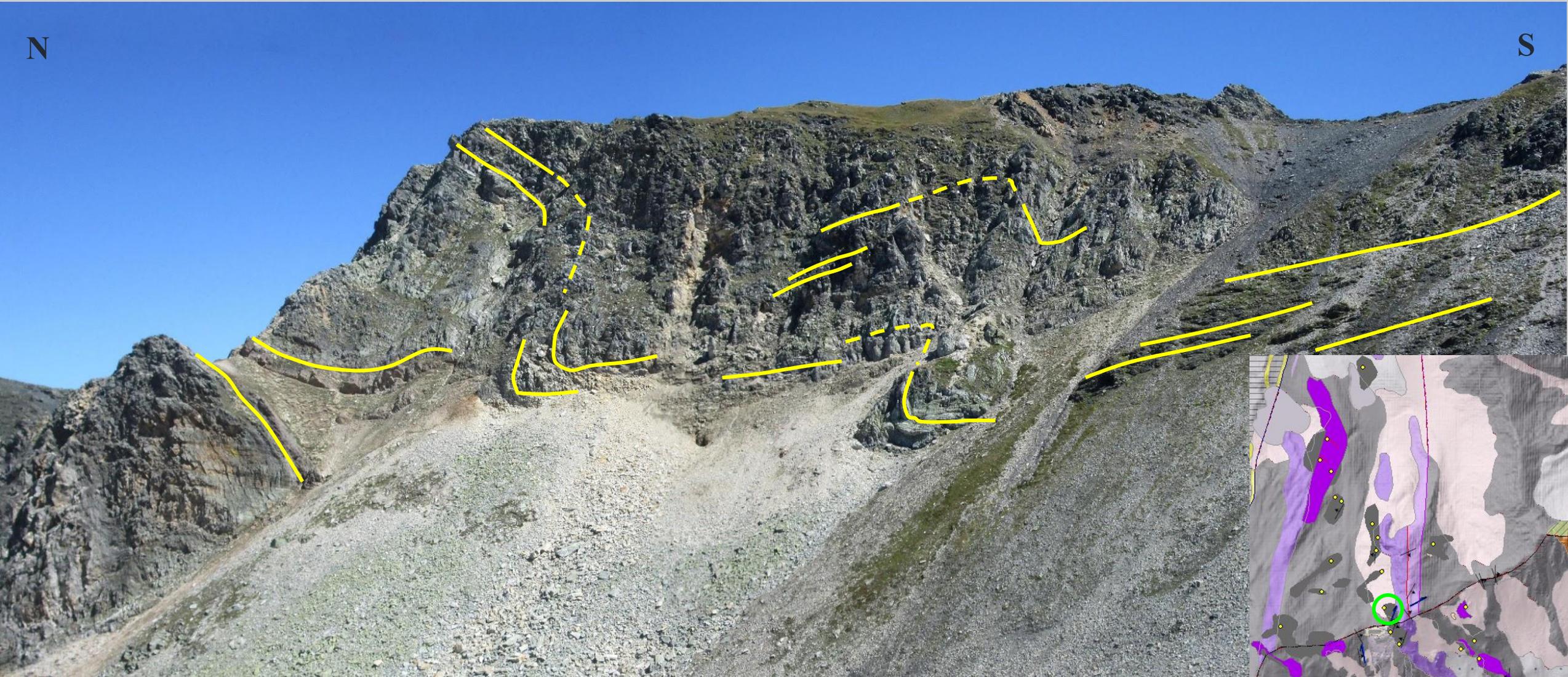


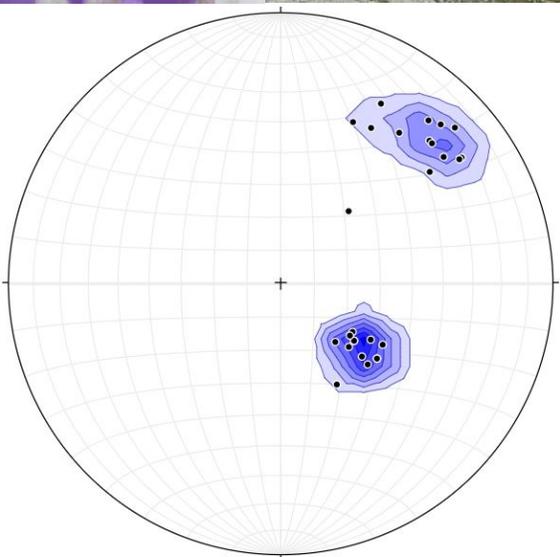
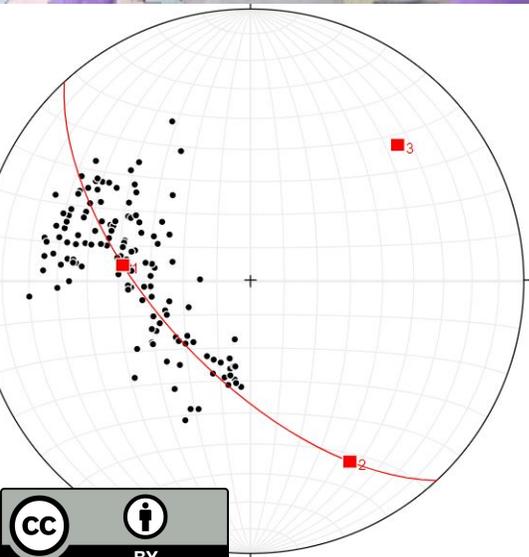
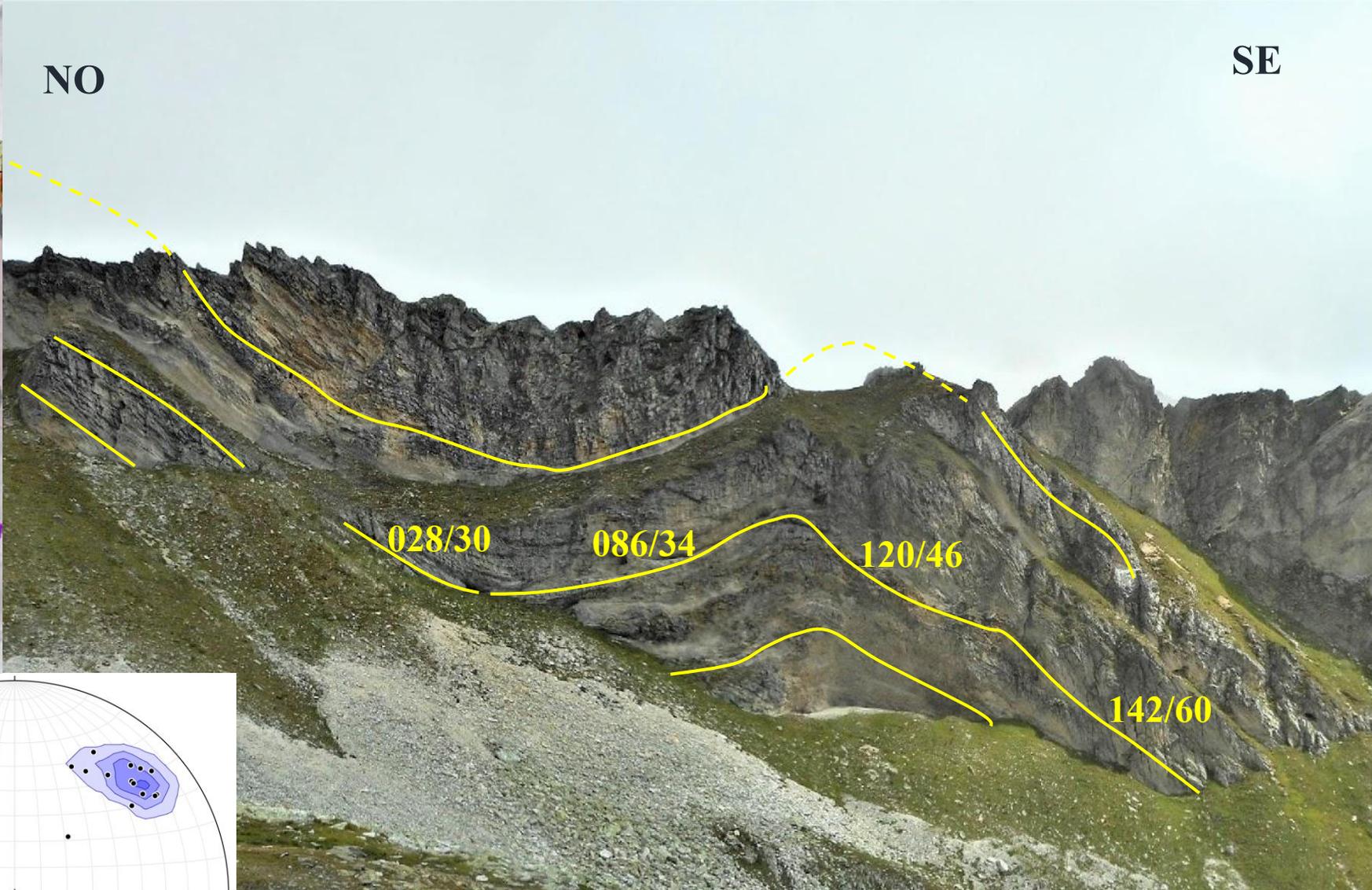
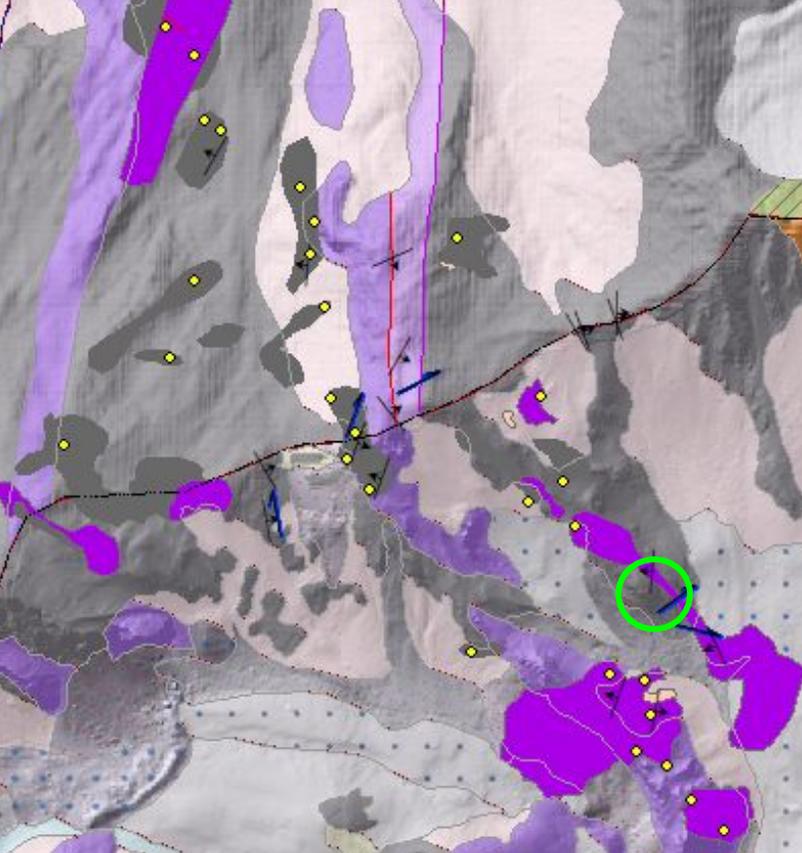
# Folded contacts between Houillere's Black shales and Metamorphic sandstones

NO



# Folds in Houillere's Black shales at Col de Fenetre





## Folds in Houillere's Metamorphic Sandstone at Baou

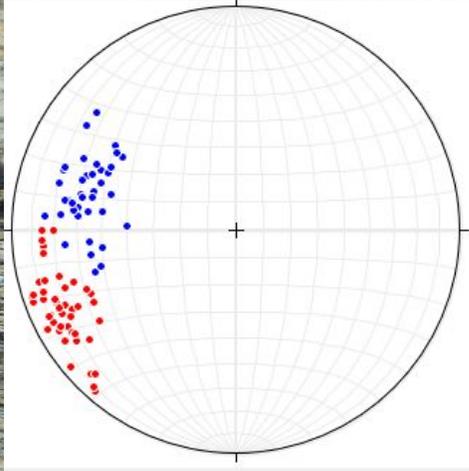
The folds here have vertical axial planes and axis with two different orientation

# Shear zone in Houillere's Metamorphic Sandstone at Baou

SE

NO

The shear zone indicate a semi-brittle deformation by the presence of a oriented weakness zone in outcrops and the presence of SCC' structures.

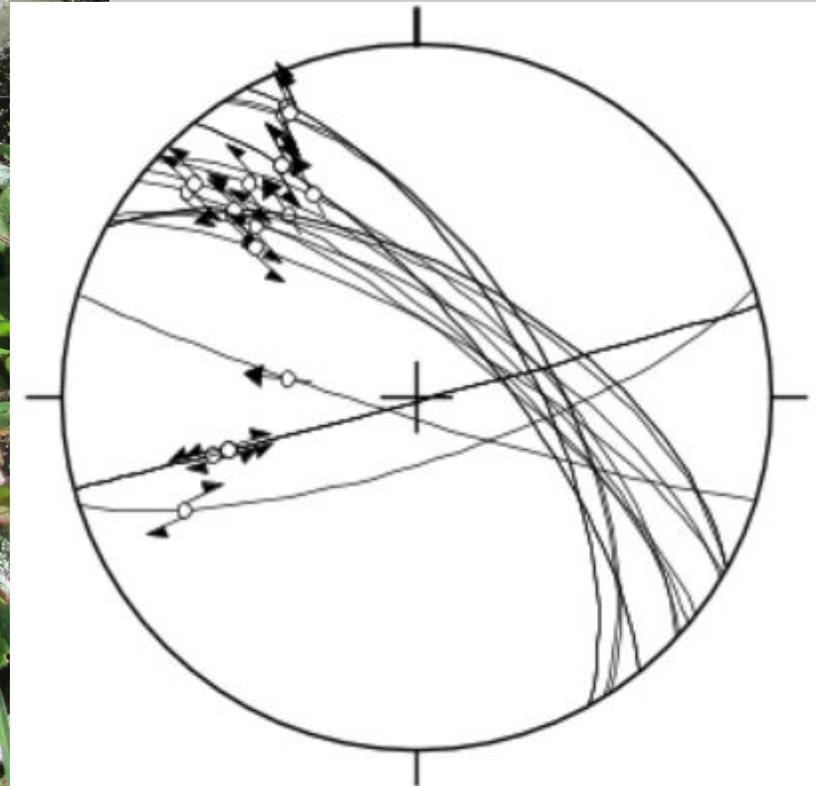
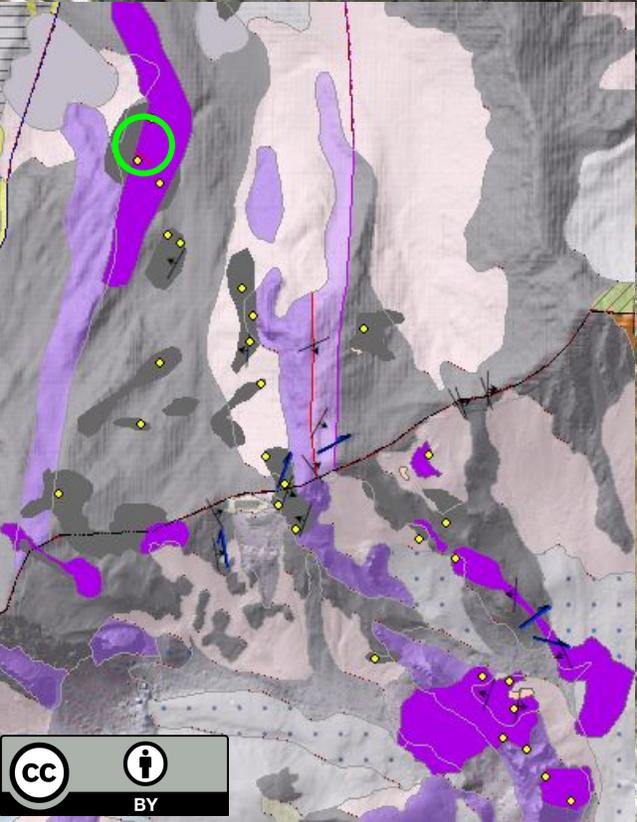


Blue poles → S  
Red poles → C



# Faults in Huoillere's Metamorphic Sandstone

The faults indicate a brittle deformation occurred after the semi-brittle deformation



# We will be happy to answer any question!

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