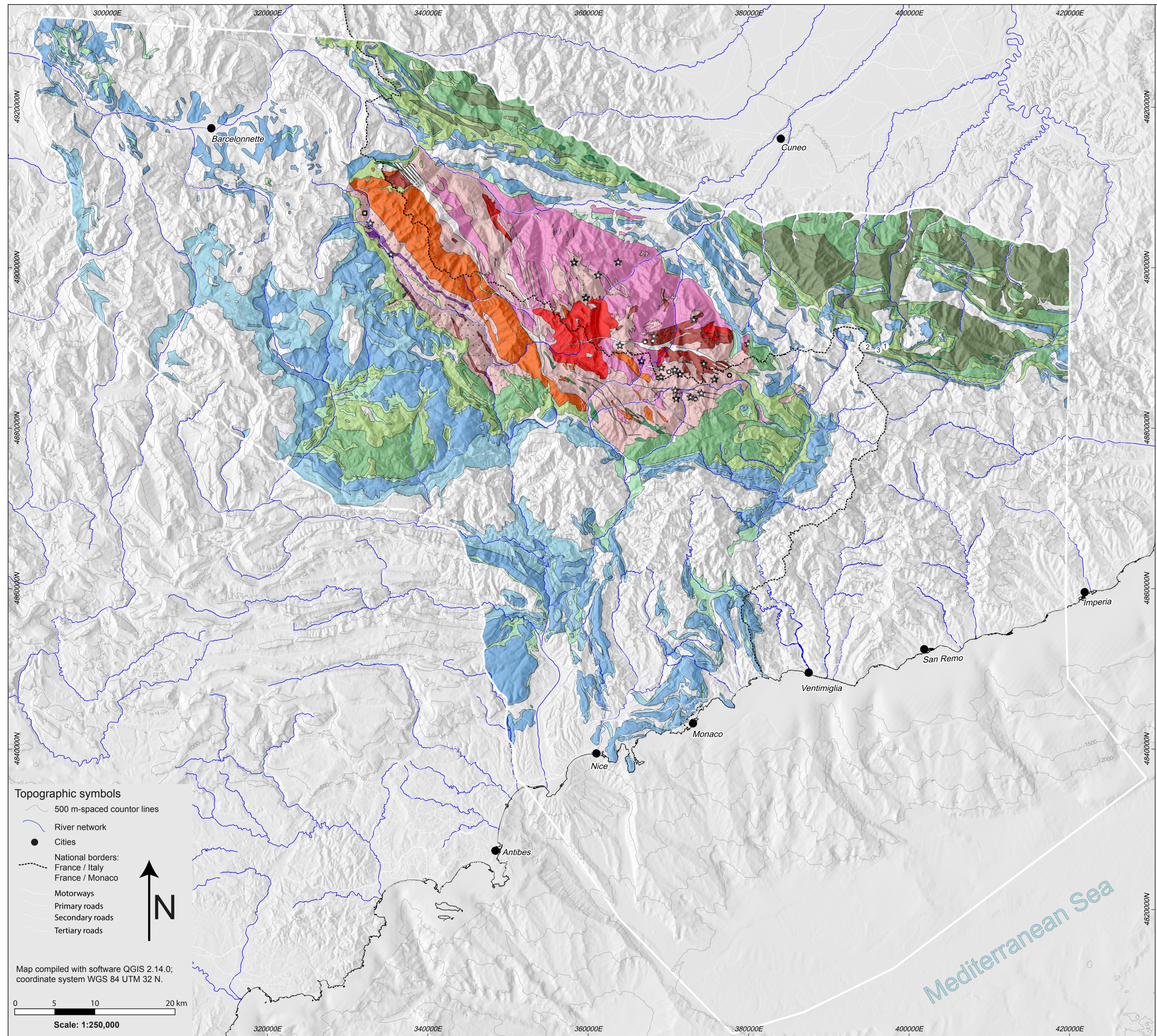


5 -- Alpine rifting, development of passive margins, and ocean formation



Legend of tectonic and petrogenetic events

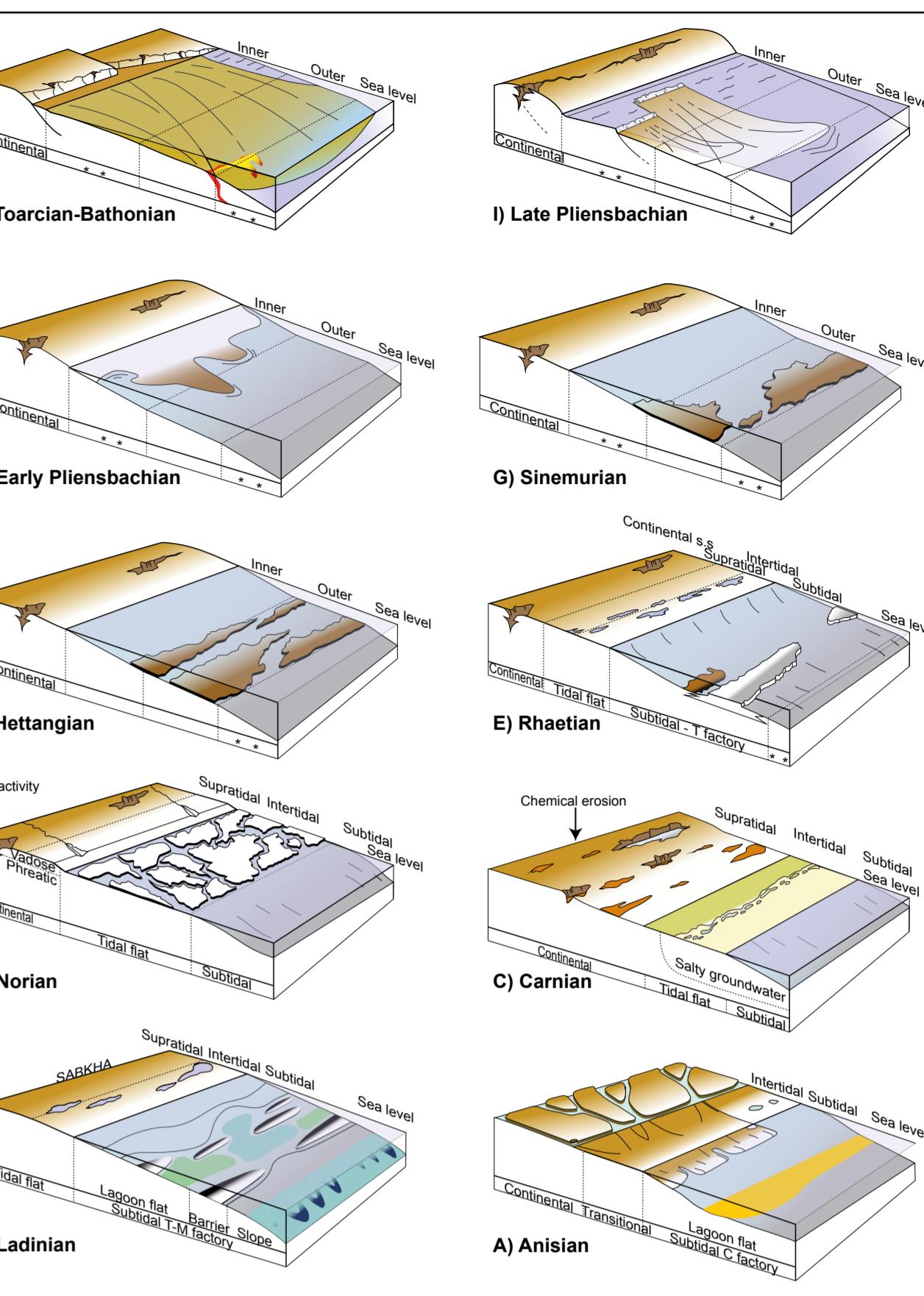
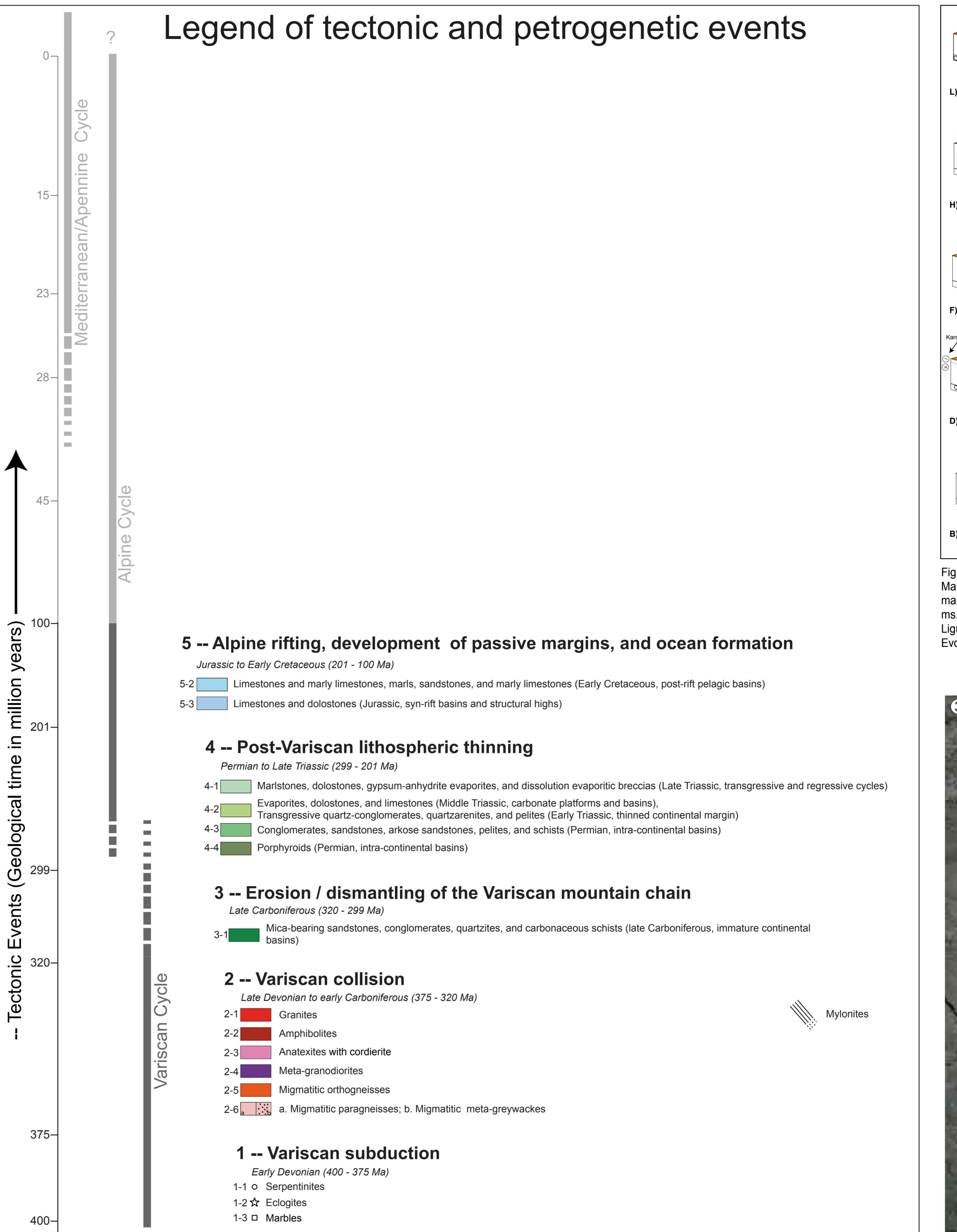


Fig. 4 - Reconstruction of depositional changes in time and space between 250 to 170 Ma, (from A to L), in an ancient coastal region showing the transition from continental to marine environments that involved the oscillation of the coastline and of different platforms. Numerous rock types in the Middle Triassic to Middle Jurassic rock assemblage of the Ligurian Alps were generated during a tectonic regime involving lithosphere extension. Evolutionary model of Decarlis et al. (2013) of the Ligurian Alps.



Fig. 3 - Well preserved fossil of an Ammonite shell in weakly deformed Jurassic to Early Cretaceous carbonate sedimentary rocks; Castel Chevalier saddle, Margareis. Event 5.

Localisation of the area of interest (red polygon) within Europe and across national (France, Italy, and Monaco), regional, and provincial borders.

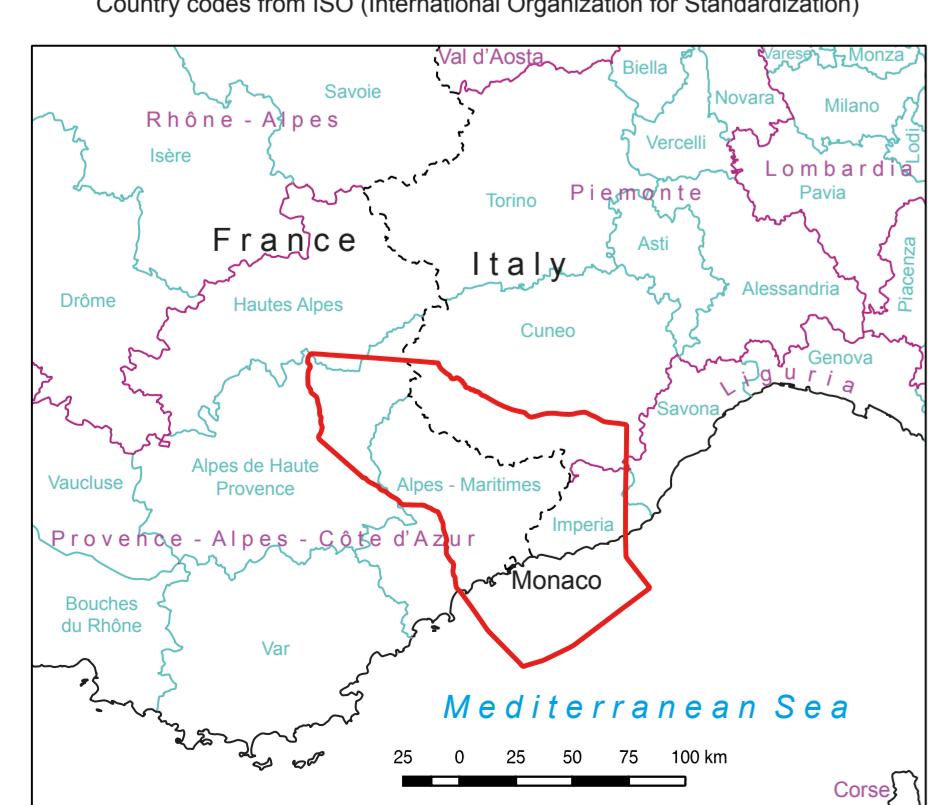
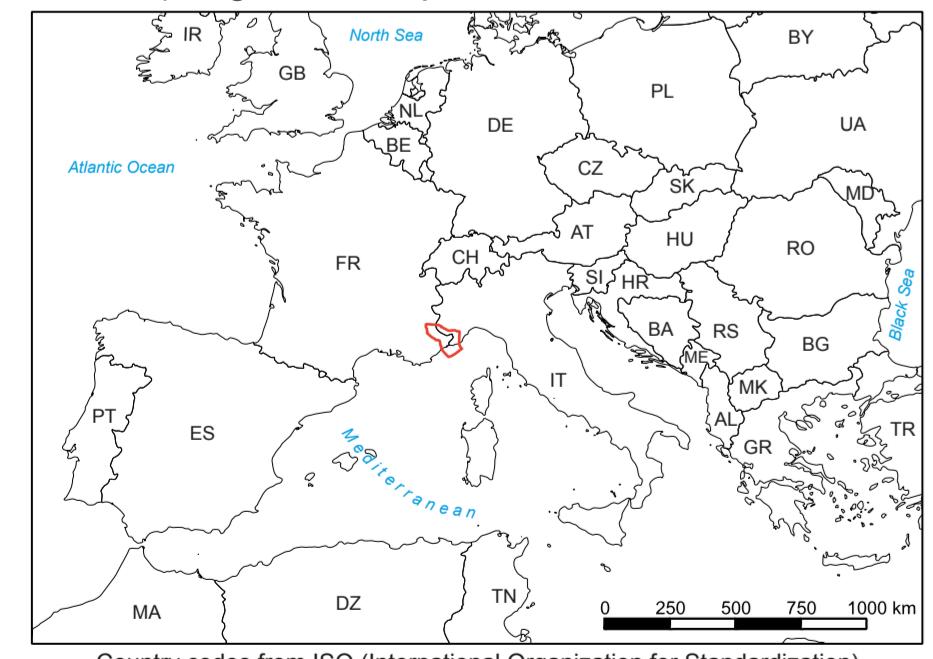


Fig. 1 - Cherty layers at the transition between the Middle-Upper Jurassic, which were deformed and steeply foliated during the formation of the earliest Alpine isoclinal fold system (Event 7); Piana delle Carsene (W of Mt Margareis), Ligurian Briançonnais Zone. Event 5.

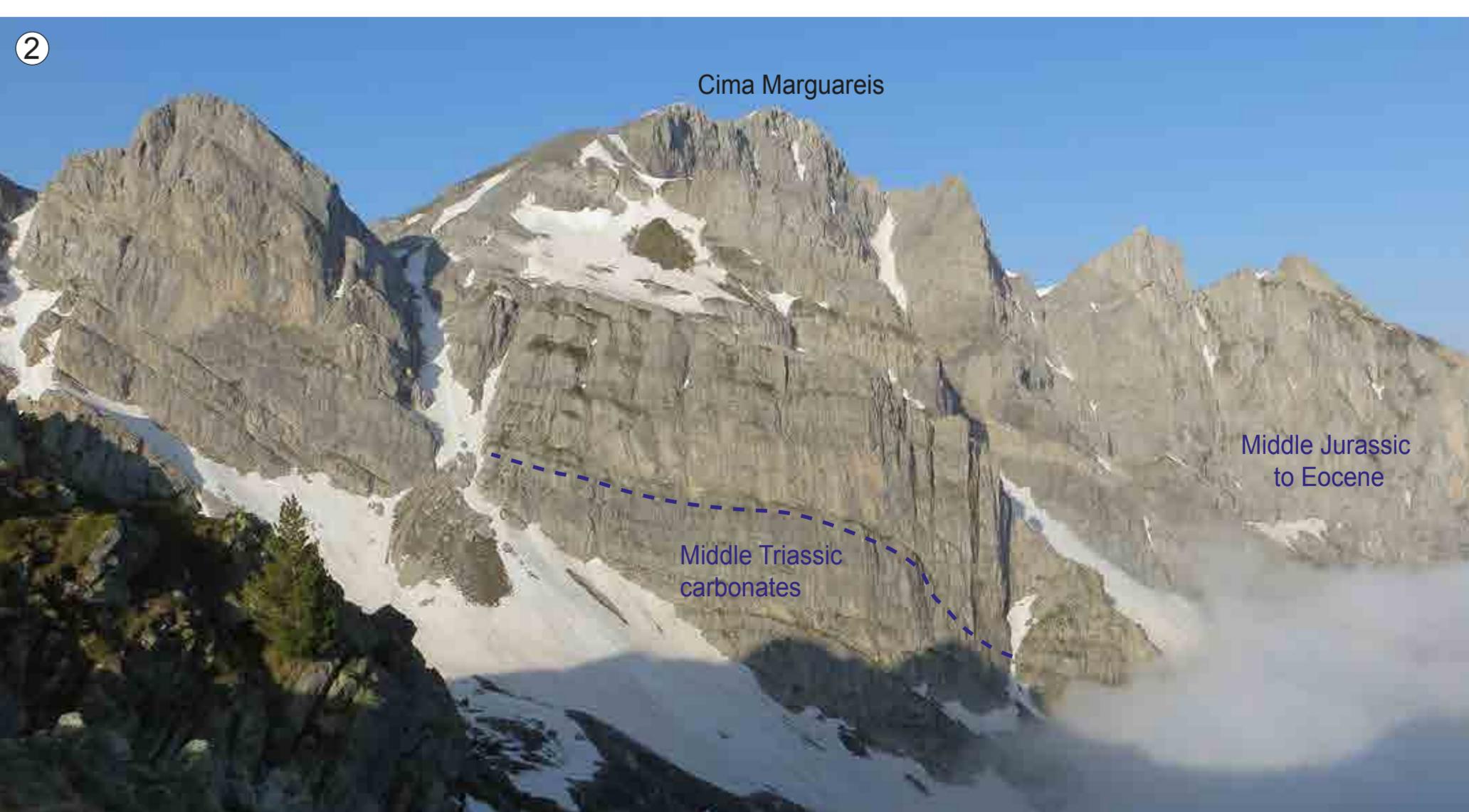


Fig. 2 - Sedimentary sequences of Middle Triassic and Jurassic to Upper Cretaceous ages on the north wall of Mt. Margareis. The Triassic carbonates are mostly fractured and faulted; the upper sequences consist of isoclinally folded post-Triassic rocks. Event 5.