Field campaign 3 – Upper Albian siliceous sediments (September 24-27, 2020)

Upper Albian siliceous sediments is planned to be represented with three locations, with detailed sampling. Locations were planned based on previous field experience (see Map of Istria) and their selection updated, as the result of Field research 6. They are situated in the roadcuts and in one abandoned mine, where best outcrops are available for investigation and detailed sampling.

Sampling of the siliceous sediments and associated carbonate rocks was performed in the broad area of Tinjan, Žminj and Pula, according to the research plan. Targeted deposits, Upper Albian siliceous and related sediments, appear in a relatively narrow zone between Tinjanska Draga near Tinjan in the NE, and Gortanova Cove in Pula in the SW. Outcrops are rare and poorly visible, and research has been focused on the roadcuts with the most prominent exposures. Siliceous sediments were also sampled in one abandoned mine near Žminj.

Tinjanska Draga near Tinjan

Exposures in the roadcut in Tinjanska Draga are intensively weathered and ruined. Predominantly micritic limestones intercalated with thin layers of siliceous sediments, were sampled at the lower part of the sedimentary sequence. Micropetrographic and microfacies analysis, as well as stable isotopes analysis, will follow.

Tinjanska Draga – outcrops and sampled sedimentary sequence









Gortanova Cove in Pula

In the roadcut at Gortanova Cove in Pula, Upper Albian limestones were sampled at the 15-20 cm intervals from the footwall and hangingwall of the siliceous sediment layer. Micropetrographic and microfacies analysis, as well as stable isotopes analysis will follow.

Gortanova Cove in Pula - sampled sedimentary sequence in the roadcut









Abandoned mine near Žminj

Upper Albian laminated and well lithified siliceous sediments were sampled continuously, representing the whole exposed sequence, in an abandoned mine near Žminj. The results of micropetrographic analysis will trace future research.

Abandoned mine near Žminj- terrain above and sampled sedimentary sequence within the mine









Three other potential research locations were also preliminary investigated: Valtura-Prison Quarry and Vidrijan Quarry near Pula, as well as Gradišće Quarry near Žminj.

Valtura-Prison Quarry near Pula

Valtura-Prison Quarry near Pula is evaluated. Potential for future research of the siliceous sediments and associated rocks will be estimated after micropetrographic analysis of preliminary sampled rocks.





Vidrijan Quarry near Pula

Vidrijan Quarry near Pula was also investigated and no potential for further research of the Upper Albian siliceous sediments and associated rocks is estimated.





Gradišće Quarry near Žminj

Gradišće Quarry near Žminj was evaluated and preliminary sampled. Potential for further research of the Upper Albian siliceous sediments and associated rocks will be estimated after micropetrographic analysis of the sampled rocks.



