

## **New aspects of the relation between older nappes (metamorphic rocks and "flysch" sediments) and Neogene cover beds (including Quaternary) in Eastern Serbia**

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Paper deals with relationship of Paleozoic and Mesozoic rocks covered by transgressive Neogene sediments, often recognized as a carrier of raw materials. In Eastern Serbia, between Kladovo and Negotin, different kind of sediments (limestones, sandstones, gravels and silts) lie over metamorphic rocks and "flysch" like limestones and clastites.

These older rocks are intersecting by young transgressive sediments, containing polymictic grains originated from mentioned older gneisses, granitoides, limestones, conglomerates and sandstones.

Re-sedimentated material represents very useful raw material applicable in civil engineering and rarely in exploration of heavy minerals.

The region of Eastern Serbia is poorly investigated in terms of mentioned raw material deposits. It was researched locally for permanent needs and in earlier time for the Đerdap dam construction (1970-1980).

It is known that Carpatho-Balkan belt could be very perspective as tracer of heavy minerals in overlying Neogene sediments, especially in deposits of river origin.

In that sense, older Quaternary polycyclic river sediments are also very perspective for further investigations of heavy minerals. It is particularly related to high composition of garnets, ilmenite etc., known from previous investigations.