

Petrographic and Mineralogical Synthesis of Sedimentary Rocks of External Zones in Albania

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Abstract

Many petrographic and mineralogical studies have been carried out on the sedimentary section of Ionian, Kruja and Sazani zones in Albania. The sedimentary rocks are of the Triassic-Pliocene age, in this section, and represent many lithological types of rocks. Institutions, companies and researchers are interested in the results of petrographic and mineralogy studies of the sedimentary section on the external Albanides. These studies have been carried out on outcrop sections and sections crossed by drilling wells. These areas have been also studied with geophysical methods. In this paper, presents the main petrographic and mineralogical characteristics of sedimentary rocks of the Triassic-Pliocene age. Also, importance is the geological and geographic position of the outcrop sections located in the tectonic sketch of Albania. The sedimentary limestone section is divided into the carbonate Triassic-Eocene (T_3 - Pg_2) and terrigenous Oligocene- Pliocene (Pg_3 - N_2). The terrigenous deposits are separated into the Oligocene-Lower Miocene (Pg_3 - N^1) and the Lower Miocene-Pliocene (N^1 - N). For the effective thickness of the carbonate section, the correlations were divided into two parts; section of Upper Triassic-Upper Jurassic and section of Lower Cretaceous-Eocene. In the carbonate section, the lithological packages are separated. Flysch and molasse deposits are divided into the petrographic and mineralogical formations that vary from one subzone to another. Nomination and classifications are based on petrographic and mineralogical indicators by models after the 1990s. In addition to the specifications in the lithological characteristics of sedimentary sections are interpreted paleogeographic and sedimentological assessment of the sedimentation environment.

Keywords: Limestone, terrigenous, turbidity, diagenesis, external zones.

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