



The Isotopic Datings by U-Pb in Zircons of Granitoides of Gashi Zone, Juniku (Kosovo) and Fierza Massif, (North Albania)

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Received January 30, 2012; Accepted February 15, 2012

Abstract: Two samples of the granodiorides of the Gashi Zone (Trokuzi massif), one sample from the Juniku(Kosovo) granite and one sample from the granitic massif of Fierza are dated by U-Pb method in zircons. The isotopic dating is realized in the Istem, CC 066 Laboratory of the Montpellie II University, France. Based on these data we conclude that there are two kinds of granitoid rocks. Juniku granites is dated 329.6 ± 2.1 Ma (Carbon, Mississippian, Serpukhovian) and the granodiorides of the Trokuzi massif are dated 242.2 ± 1.5 and 244.5 ± 1.5 Ma (Middle Triassic, Anisian). The Fierza granites is dated 247.3 ± 3.1 Ma, that is at the border of Low Triassic (Olenekian) and Middle Triassic (Anisian), but the ± 3.1 Ma analytical error don't exclude the possibility that this massif is of the same age as the Trokuzi massif. On the Geologic Map of Albania, in scale 1:200 000 both the Trokuzi and Fierza massifs are dated J_{2-3} . Our new data confirm the formation of the plutonic rocks in Low-Middle Triassic as the known in Albania volcanic rocks. After the last geochemical studies, including isotopic one, these volcanics are formed initially in a rifting zone that is evolved to a spreading ridge. Both plutonic and volcanic rocks are known in Dinarides, formed in the same geodynamic conditions in the Low-Middle Triassic. All our data are out of the range of the Jurassic ophiolites and especially plagiogranites and microdiorites dated by the same U-Pb method in zircons (160-165.5 Ma, Middle Jurassic, according to Yildirim Dilek et al. 2008).

Key words: *absolute geochronology, isotopic dating, granodiorides, Gashi zone, Juniku granites, Fierza granites.*

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