

Lithological and structural characterization in the section Atillo-Macas (Cordillera Real-Ecuador)

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The Cordillera Real is about 650km long and 60km wide within Ecuador (The metamorphic belts of Ecuador, 1994). Along the section Guamote-Macas previous work include: Wolf in 1892 and Sauer in 1950. The last published work done in the sector Atillo-Macas was realized under the Cordillera Real Geological Research Project: a bilateral Technical Cooperation programme of the ODA-INEMIN during the years 1986 and 1988. Their objective was the elucidation of their nature, structure, relationships, genesis and mineral data-base to support and promote a viable national mining industry (The metamorphic belts of Ecuador, 1994). Since then, there haven't been new detailed studies of this sector, and in consequence the geology of this area is unfinished. The present study is focused on resolving uncertainties of the geology and the tectonism of this section, and the relationship with the Subandean zone. Moreover it tries to bring new lights to the previous model proposed by the BGS.