

Deposit Models, and Resources Potential of Eastern Cuban Republic_Precious and Base Metals

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The potential of mineral resources for precious and base metals are evaluated around 35000 km², scale 1:250 000. For this it was applied, adjusted to the conditions of Cuba, the methodology of the Quantitative Geology. Their application was carried out by means of an automated system of metallogenic evaluation. The same was mounted in the Geographic Information System CARIS. As a result of the works the presence of nineteen models of mineral deposits. The most important are: Epithermal of high and low sulfidation, Carlin, Meso - epithermal type Holguín, Volcanogenic massive sulfides Kuroko and Cyprus, Cu - Mo porphyries and Cu - Au - Ag related with overthrust fault. Other models of deposits with wide representation are those of skarn of Fe, Fe - Cu and Cu. In the region was defined the existence of a model for deposits of auriferous podiforms chromites. They are also of interest the models of polymetallic mineralization related with overthrust faults, graphitic schists and olivinites.

The high potentiality was determined for precious and base metals of the sequences of the Cretaceous Volcanic Arc, the Paleogene Volcanic Arc and in the auriferous region of Holguín. Fifty two sectors with high and moderate potential of mineral resources are located. Also are defined the principal priorities for the geologic prospecting. The results of these works, such as specialized maps, characterization of the potential of mineral resources for areas, geologic and metallogenic data of interest for the mining community can be consulted and acquired in the Institute of Geology and Paleontology of the Republic of Cuba.