

THE WORLD ATLAS OF PRECAMBRIAN METALLOGENIC ZONING: FIRST DIGITAL TECTONIC AND METALLOGENIC MAPS OF THE WORLD-RANK PRECAMBRIAN TERRANES

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World Atlas of the Precambrian Metallogenic Zoning (WAPMZ, General Co-ordinator - D.Rundqvist) was proposed by the Russian scientists at CGMW General Assembly in Paris, 1987 and approved as International Project which has been worked out with using modern GIS-technology. The Project was aimed to the improvement of fundamental scientific and prognostic metallogenic works in the Precambrian terranes. Thereafter the main aims were: 1) compiling of WAPMZ for all continents according to uniform legend and studying on its basis of regularities in the mineral deposits distribution within the Precambrian tectonic ore-bearing structures of the Precambrian Shields, old platform basement and Precambrian inlets within Phanerozoic fold belts; 2) global correlation of metallogenic epochs; 3) analysis of tectonic evolution of Precambrian ore-bearing structures. A systematic of main metallogenic database was maintained according to three formal levels: metallogenic provinces, zones and mineral deposits. This database was connected with the tectonic units of the Atlas by using International Standard ARC/INFO.

The map-sheets of WAPMZ in a numbering of Geological map of the World includes: 9 Europe and 12 Eastern Siberia 1:10M with separate sheet-inserts: 9a Fennoscandian Shield 1:5 M, 9b Ukrainian Shield and Voronezh crystalline massif, 12a Aldan-Stanovoy Shield, 12b Enissey ridge, Eastern Sayan and Baikal orogenic regions - all 1:2.5M. Owing to co-operation with scientists of foreign country (D.Growes, K.Jana, Pei Rongfu) the map-sheets 15 Australia, 11 India and 13 China have been prepared. To this Congress the digital versions of map-sheets 2-3 N. America, 4-5 S. America and 6-7-8 Africa are in processing.