

## **PYRITIC DEPOSITS IN GEOFIELDS OF URAL.**

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Comparison of material and physical geofields with manifestation of pyrites on Ural is fulfilled for the first time. The main regularities and specific features of pyritic deposits are investigated by selection in pyritic formation of the system of structural - material objects of various rank: a metallogenic zone - a ore-bearing zone - a ore knot - a ore zone - ore-volcanic centre - ore field - ore body. Each of objects in observed geofields is characterized by a set of geological & geophysical tags corresponds to particular physico-geological model and hypothetical paleogeodynamic conditions. There are three main sectors - western, central and east in Ural's structure. They are situated in roof and in hanging wall of crust-mantle diapir guessed according to the seismological data. The greatest amount of deposits is in central sector. They are distributed lengthways of girdles of Silurian-Devonian volcanogenic complexes. In Southern Ural, where there are the main stores of pyritic ores, most productive ore knots are situated on intersections of quasi-spreading and quasi-transforming structures. On the data of seismoreconnaissance the ore knots correspond to ascending structures, probably, bound with fluid-energy streams. The outcomes of detailed learning of geofields observed above ore structures are reduced to typical models of ore-prospective areas. It has allowed to define main criteria for the prognosis and searches of deposits. The comparative analysis of geofields of pyritic deposits of various provinces is showing, that Ural is the unique province, in which there are considerable perspectives of detection of new deposits.