

MEZOTHERMAL GOLD DEPOSITS OF SIS COUNTRIES

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Gold deposits, which are treated as mesothermal, compose the base of the reserves of ore gold of leading gold producing countries of SIS: Russia, Uzbekistan, Kazakhstan, Kirgizstan, Tadzhikistan. 1) Gold-quartz stockworks, veins, in sandschist complexes of miogeosin-clinal regions (Muruntau, Sovetskoye, Nezhdaninskoye, Karalveem); 2) Gold-sulphide bodies, zones of veinlet-disseminated ores in black-shales formation (Sukhoy Log, Olympiada, Mayskoye, Kumtor); 3) Gold-quartz, gold-sulphide-quartz veins, stockworks in granitoid intrusive bodies, their exocontacts and in dyke belts (Berezovskoye, Bestube); 4) Gold-carbonate-quartz veins, stockworks in gabbroid intrusive bodies and zones of listvenitization (Kommunar, Dzhetigora, Maykain); 5) Gold bearing porhyry-copper (Almalik, Kownrad, Taldy-Bulak); 6) Gold-sulphide-carbonate bodies, veins in carbonate rocks of activated paltform blocks (Lebedinoye, Koltinkonskoye); 7) Gold-skarn (Sinukhinskoye, Taror, Makmal, Kuru-Tegerek); 8) Gold-quartz-sulphide mineralized zones, bodies in miogeosinclinal carbonate-schists rocks (Sarilakh, Sentachan); 9) Gold-platinum-raremetals fuksitized zones in metavolcanites (Chud-noye); 10) Gold-uranium bearing zones of pyrite-carbonate-K feldspar metasomatismes in crystalline rocks (Elkonski horts - Aldan shield); The variety of geological and mineral-geochemical types of the discussed deposits is determined by manifestation of oreforming systems in orogenic stages of different age phanerozoic fold regions and zones of tectonic-magmatic activation with changing relations of mantle and crust magmatic and fluid components. In the proposed generalized model of fluid-magmatic megasystems as most important zones of accumulation of fluids are discerned - fluid accumulators, reflecting the accumulation by the systems of critical masses of fluids and the formation of oreforming hydrothermal solutions.