A large amount of the field geologic and prospecting work has been done in the southeast Pamir through Henan Institute of Geological Survey, China, and the detailed geological features and various sized metal deposits also have been documented by many geologists in recent years. The southeast Pamir structural belt consists of a part of the famous West Himalaya Syntaxis, where the different tectonic blocks underwent many orogenic movements and the old stratigraphic units were deformed or metamorphosed, leading to the complex geologic amalgamation, the frequently igneous activities and the enrichment of the metal elements. The target area is surrounded by the Rushan-Pshart suture, similar to the Bangong-Nujiang suture zone in eastern central Tibet, and the Karakax suture zone, a left-lateral strike-slip fault between Tarim plate and Qiangtang block, to the north and east, respectively. The west limit is from the Aksu-Rankul fault, one of three branches faults from the Kalakorum Fault, a dextral strike-slip fault near Tirich Mir-Karakorum-Gangdese Arc, toward south which extents to the joint with the main Kalakorum fault. According to the boundary faults three tectonic blocks have been delineated as Tashkorgan, Mingtiegaei and Murgab microplates from east to west. Moreover the different typed mineral deposits occur in the certain tectonic blocks accordingly, also the main four kinds of the metal deposits include: ① Stratabound carbonate iron-copper-gold deposit, ② Sedimentary-metamorphic iron deposit, ③ Epithermal gold-silver-lead-zinc-copper vein deposit, and ④ Hypothermal tin polymetallic deposit. Further the typical extrusion tectonics and its volcanic-sedimentary environment and metamorphic grade, the intrusive bodies and structural analysis of the main boundary faults as well as the description of the large-sized deposits have been reviewed from the field sites or indoor documents, or by the geochronologic and geochemical methods. A significant guide for next exploration for useful minerals is expected on the extremely remote and cold world roof.

Key words. Geologic Setting, Metallogenesis, Southeast Pamir, Rushan-Pshart Suture, Tin-polymetallic