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## スラブ流体の指標としての熱水性鉱床の Pb 同位体比 Pb isotopic compositions of hydrothermal deposits in the Japanese island arc as a tracer of slab-fluids

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Quite recently, it has been pointed out that "geofluids" released from the subducting plates may be involved in various phenomena in subduction zone, such as young volcanic rocks, deep-seated hot springs and hydrothermal deposits. Systematical investigations of these various materials are needed for identifying the geochemical characteristics of the geofluids. Nakamura et al. (2008) revealed that the slab-fluids derived from two subducted plates (the Pacific plate and the Philippine Sea plate) contribute largely to the genesis of arc magmas in the Central Japan. Here we focus on hydrothermal deposits (vein-type and skarn-type) in the Japanese island arc. Hydrothermal fluids that formed sulphide mineral (galena, pyrite, chalcopyrite, sphalerite etc.) deposits are generally considered to have been derived from magmatic and/or meteoric waters based on H, C, O, and S isotopes in the deposit materials. However, ore fluids may be directly derived from deep fluids. We report Pb isotopic compositions of hydrothermal deposits in the Central Japan and discuss about the origin of ore fluids.

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