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Re-Os age distribution of Besshi-type massive sulfide deposits as an indicator for paleo-redox of deep-sea environment

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There are numerous Besshi-type Cu deposits (tabular, strata-bound volcanogenic massive sulfide deposits) in the Sanbagawa Belt, Japan. Re-Os isochron ages were determined for 10 Besshi-type deposits in order to constrain a timing of sulfide mineralization. Based on the age constraints, we discuss the linkage between sulfide deposition on seafloor and paleo-redox change of deep-sea environment.