

Long-term stability of geological environment in Japan, from the point of view of preservation of uranium deposits

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Uranium deposits in Japanese Island are suitable analogues for indicating the existence of favourable geologic environments in Japan.

Occurrence of uranium deposits/occurrences in Japan has been compiled based on published data. Uranium deposits/occurrences mainly exist in Tertiary sandstone and granitic rocks, and partly in Cretaceous sedimentary rocks, Paleozoic/Mesozoic accretionary complex and metamorphic rock (mainly hornfels).

Various rocks host uranium deposits/occurrence suggest that geological environment suitable for geological isolation is widely distributed even in Japanese Island which is located in a geologically active area.

This effort will support building confidence in deep geological disposal.