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Effect of chemical weathering of streams on Yakushima, Island

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Yakushima Island is in about 60 Km south from the Osumi peninsula in Kagoshima Prefecture. This island is one of the most western areas of Japan, and there are no known sources of artificial pollutants close to Yakushima Island. So it is considered that the influence of transboundary pollution from industrial area of East Asia is strongly affected.

We conducted water survey in Yakushima Island whole area. We compared data in 2009 to 2002, the cation concentration, especially the Mg^{2+} concentration and Ca^{2+} , was higher in 2009. Similarly, the SiO_2 -Si concentration was higher in 2009. We discuss the variation of these concentration, especially in Western Yakushima Island.