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Climatic implications of stable isotopes of Japanese cedar in Yakushima over the AD300-332

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At the present day, there are many paleoclimate reconstructions by proxies and the reconstructions over the last 2000 years use mainly tree-ring width. However a detailed growth mechanism of tree-ring width is not revealed and there are some problems like divergence effect. My research presents tree-ring d13C and tree-ring d18O from AD300 to AD332 and tree-ring width from AD237 to AD578 of Japanese cedar's (*Cryptomeria japonica*) in Yakushima to make a more precise paleoclimate reconstruction.

Keywords: Japanese cedar, Stable isotope, pleoclimate