

Spring-time precipitation recorded in coral skeleton from Ishigaki Island, Japan

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Summertime oxygen isotope ratio of sea water for Ishigaki Island, Japan was reconstructed from oxygen isotope record of skeleton of *Porites* sp., reef building coral, collected from Yasura Peak of this island for the period 1971-1996 using sea surface temperatures (SSTs) and equation between winter SST and coral oxygen isotope ratio. And also the cause of its fluctuation is presumed from other climate data. Reconstructed summertime oxygen isotope ratio of seawater revealed significant correlation with springtime precipitation though not with summertime precipitation. The time lag of approximately 4 month suggests the presence of spring of seabed with response time of several months.

The correlation between long-term fluctuation of springtime precipitation at Ishigaki Island have correlation and long-term fluctuation of Pacific Decadal Oscillation (PDO).