

Thermoluminescence Dating of Pleistocene Ryukyu Limestone in Okinawa Island II

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Thermoluminescence [TL] dating of calcite is useful for corals in the Pleistocene Ryukyu Limestone in Okinawa Island, in which no aragonite is found. The TL growth of a group of fossil calcite corals in the Pleistocene Ryukyu Limestone in Okinawa Island exhibits supralinear behavior, while that of another group exhibits saturation behavior. TL dating could be applicable to the supralinear group. Environmental gamma-ray dose of the Ryukyu limestone is also measured by a NaI scintillator to obtain precise dose rates.