

The SXAM chemical mapping of the lacustrine sediment core (SGP3) from Lake Suigetsu, Central Japan

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The Scanning X-ray Analytical Microscope (SXAM) was applied to the lacustrine sediment core (SGP3) from Lake Suigetsu, Central Japan. Chemical profiles showing the fluorescent X-ray counting number against stratigraphic depth was obtained from individual chemical images. Many characteristic horizons we call here event layers were identified. Thin section observations confirmed that they can be classified to volcanic ash layers, turbidite layers, clay-rich layers without diatoms, and Mn-enriched layers. It is noted that occurrences of Mn-enriched layers coincided with the last ice-age.