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High time and spatial resolution XRF count profiles of the lacustrine sediment from Lake Suigetsu, Central Japan

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We report the following results using high spatial resolution XRF count profiles of the lacustrine sediment from Lake Suigetsu, Central Japan, acquired by SXAM and image processing Lamination Tracer. The spatial resolution of their profiles is 0.4mm/pixel. Firstly, Oohashi (2000) reported that four types of laminae could be described by XRF count profiles. We compare their laminae in Oohashi's profiles with ours and then check whether laminae not extracted from Oohashi's occur in ours or not. Secondly, we determine and compile the ages of four types of laminae. Three tephra beds occur in this core sediment and are revealed by 14C dating. Therefore we can estimate the sedimentation rate and then each lamina of this core.