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Isotopic analysis of seasonal change of nitrogen cycling in Lake Kizaki.

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The stable isotope composition of nitrate and nitrite was measured during summer to winter 2007 in Lake Kizaki. In epilimnion, enrichment of delta15N and delta18O was not observed with decrease of nitrate. In autumn, isotopic signal was not shown in all layers. This suggest that nitrification did not occur in Lake Kizaki in autumn.