

## Biogeochemical cycles of phosphorus and nitrogen supplied from feces of cormorant to a pond Yamada-Onuma

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Yamada-Onuma, located in western Kanto prefecture, is highly eutrophic because of the input of feces of cormorant (*Phalacrocorax carbo*) containing phosphorus ( $\text{Ca}_3(\text{PO}_4)_2$ ) and nitrogen ( $\text{C}_5\text{H}_4\text{N}_4\text{O}_3$ ). In this study,  $\text{NH}_4^+$ ,  $\text{NO}_3^-$ , urea, uric acid,  $\text{PO}_4\text{-P}$  and TP were analyzed to elucidate the phosphorus and nitrogen metabolism in this pond.

We report about chemical feature of phosphorus and nitrogen in the catchment soil, water and sediment in this pond.