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大塚泰介・加藤進・浅井一視・渡辺仁治：バイ湖の珪藻の写真入りチェックリスト，および水質との関係

Taisuke Ohtsuka, Susumu Kato, Kazumi Asai and Toshiharu Watanabe: Checklist and illustrations of diatoms in Laguna de Bay, Philippines, with reference to water quality

Abstract

A taxonomic survey of the diatom flora of Laguna de Bay, the largest lake in the Philippines, was conducted with special reference to the slightly brackish and heavily polluted water quality. Based on samples collected in 1976 and 1997, we identified 83 diatom taxa belonging to 37 genera. They are illustrated here together with 15 unidentified taxa. The predominant genus in term of species richness was *Gomphonema*, represented by 12 species. *Nitzschia* and *Navicula* were subdominant each represented by 10 species. A euhalobic species, *Giffenia cocconeiformis*, occurred despite the low salinity (< 0.4‰). Regardless of the heavy organic content and high phosphorus concentration of the lake water, saprophilous species were not common, and some saproxenous species occurred.

Key index words: checklist, diatom, *Gomphonema*, Laguna de Bay, euhalobe, water quality