

Vertical distribution of the triple oxygen isotopic compositions of DO in oligotrophic/mesotrophic environments

TSUNOGAI, Urumu^{1*} ; MINAMI, Sho¹ ; SAKUMA, Hiroki¹ ; KOMATSU, Daisuke¹ ; NAKAGAWA, Fumiko²

¹Graduate School of Environmental Studies, Nagoya University, ²Faculty of Science, Hokkaido University

In order to quantify the gross production rate of dissolved oxygen molecules (DO) in hydrosphere beneath thermocline, vertical distributions of the triple oxygen isotopic compositions of DO in oligotrophic/mesotrophic lakes were determined, together with their temporal variations.

Keywords: oligotrophic lake, mesotrophic lake, dissolved oxygen, triple oxygen isotopes, vertical profile, seasonal variation