

Biogeochemistry: Isotope Ratio Mass Spectrometry

Several state-of-the-art, isotope ratio mass spectrometers are available at WHOI for Microbial Biogeochemical research. These include:

1. Thermo-Finnigan Delta PLUS XP currently configured for analysis of N_2O ($\delta^{15}N$, $\delta^{18}O$, $\delta^{15}Na$, $\delta^{15}Nb$), NO_3^- ($\delta^{15}N$, $\delta^{18}O$), NO_2^- ($\delta^{15}N$, $\delta^{18}O$), H_2O ($\delta^{18}O$), and O_2 ($\delta^{18}O$) using a gas chromatograph, continuous flow interface or dual inlet.
2. Thermo-Finnigan Delta PLUS XL currently configured for δ^2D and $\delta^{13}C$ of volatile carbon compounds and semi-volatile lipids.
3. Thermo-Finnigan MAT 252 currently configured for analysis of compound- or class- specific $\delta^{13}C$ analyses at high-sensitivity using a moving wire combustion interface.



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Mail: Woods Hole Oceanographic Institution, 266 Woods Hole Road, Woods Hole, MA 02543, USA.

E-Contact: info@whoi.edu; press relations: media@whoi.edu, tel. (508) 457-2000

Problems or questions about the site, please contact webdev@whoi.edu