

Methodological perspectives on the application of compound-specific stable isotope fingerprinting for sediment source apportionment

Hari R. Upadhyay^{1,2} · Samuel Bodé³ · Marco Griepentrog¹ · Dries Huygens¹ ·
Roshan M. Bajracharya² · William H. Blake³ · Gerd Dercon⁴ · Lionel Mabiré⁵ ·
Max Gibbs⁶ · Brice X. Semmens⁶ · Brian C. Stock⁶ · Wim Cornelis⁷ · Pascal Boreckx¹

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Abstract

Purpose Compound-specific stable isotope (CSSI) fingerprinting of sediment sources is a recently introduced tool to overcome some limitations of conventional approaches for sediment source apportionment. The technique uses the ^{13}C CSSI signature of plant-derived fatty acids ($\delta^{13}\text{C}$ -fatty acids) associated with soil minerals as a tracer. This paper provides methodological perspectives to advance the use of CSSI fingerprinting in combination with stable isotope mixing models (SIMMs) to apportion the relative contributions of different sediment sources (i.e. land uses) to sediments.

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 Hari R. Upadhyay
hari.ram.upadhyay@ugent.be

¹ Isotope Bioscience Laboratory—ISOFYS, Faculty of Bioscience Engineering, Ghent University, Coupure links 653, 9000 Ghent, Belgium

² Aquatic Ecology Center (AEC), School of Science, Kathmandu University, Dhulikhel, Nepal

³ School of Geography, Earth and Environmental Sciences, Plymouth University, Plymouth, Devon PL4 8AA, UK

⁴ Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Department of Nuclear Sciences and Applications, International Atomic Energy Agency, IAEA, Wagramstrasse 5, 1400 Vienna, Austria

⁵ National Institute of Water & Atmospheric Research Ltd, Gate 10, Silverdale Road, Hillcrest, Hamilton 3216, New Zealand

⁶ Scripps Institution of Oceanography, University of California San Diego, San Diego, CA, USA

⁷ Department of Soil Management, Faculty of Bioscience Engineering, Ghent University, Coupure links 653, 9000 Ghent, Belgium

Results and discussion CSSI fingerprinting allows quantitative estimation of the relative contribution of sediment sources within a catchment at a spatio-temporal resolution, taking into account the following approaches. First, application of CSSI fingerprinting techniques to complex catchments presents particular challenges and calls for well-designed sampling strategies and data handling. Hereby, it is essential to balance the effort required for representative sample collection and analyses against the need to accurately quantify the variability within the system. Second, robustness of the CSSI approach depends on the specificity and conservativeness of the $\delta^{13}\text{C}$ -FA fingerprint. Therefore, saturated long-chain (>20 carbon atoms) FAs, which are biosynthesised exclusively by higher plants and are more stable than the more commonly used short-chain FAs, should be used. Third, given that FA concentrations can vary largely between sources, concentration-dependent SIMMs that are also able to incorporate $\delta^{13}\text{C}$ -FA variability should be standard operation procedures to correctly assess the contribution of sediment sources via SIMMs.

Conclusions This paper reflects on the use of $\delta^{13}\text{C}$ -FAs in erosion studies and provides recommendations for its application. We strongly advise the use of saturated long-chain (>20 carbon atoms) FAs as tracers and concentration-dependent Bayesian SIMMs. We anticipate progress in CSSI sediment fingerprinting from two current developments: (i) development of hierarchical Bayesian SIMMs to better address catchment complexity and (ii) incorporation of dual isotope approaches ($\delta^{13}\text{C}$ - and $\delta^2\text{H}$ -FA) to improve estimates of sediment sources.

Keywords Biotracers · Compound-specific stable isotope (CSSI) analysis · Erosion · Fatty acids (FAs) · Sediment fingerprinting · Stable isotope mixing models (SIMMs)

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