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*CORRESPONDENCE Paule Pamela Tabi Eckebil ⋈ paule.tabieckebil@unibe.ch

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Correction: Tropical ecosystem multifunctionality assessment and insights for sustainable land management: a systematic literature review using the Drivers-Pressures-State-Impacts-Responses framework

Paule Pamela Tabi Eckebil^{1*}, Frank Mintah¹, Matthias Bürgi^{1,2}, Felicia O. Akinyemi^{1,3}, Denis Jean Sonwa⁴ and Chinwe Ifejika Speranza¹

¹Institute of Geography, Faculty of Sciences, University of Bern, Bern, Switzerland, ²Swiss Federal Research Institute (WSL), Birmensdorf, Switzerland, ³Geomatics, Department of Environmental and Life Sciences, Karlstad University, Karlstad, Sweden, ⁴World Resources Institute (WRI), Kinshasa, Democratic Republic of Congo

KEYWORDS

ecosystem multifunctionality, tropical ecosystems, ecosystem benefits, ecosystem functions, landscape multifunctionality, sustainable land management, DPSIR

A Correction on

Tropical ecosystem multifunctionality assessment and insights for sustainable land management: a systematic literature review using the Drivers-Pressures-State-Impacts-Responses framework

by Tabi Eckebil, P. P., Mintah, F., Bürgi, M., Akinyemi, F. O., Sonwa, D. J., and Ifejika Speranza, C. (2025). Front. For. Glob. Change 8:1623266. doi: 10.3389/ffgc.2025.1623266

Affiliations were omitted from the published article on page 1.

Affiliation [1] Institute of Geography, University of Bern, Bern, Switzerland] and [2] Swiss Federal Research Institute (WSL), Birmensdorf, Switzerland] was omitted for author [Matthias Bürgi^{1,2}]. This affiliation has now been added for author [Matthias Bürgi^{1,2}].

Affiliation [1 Institute of Geography, University of Bern, Bern, Switzerland] and [3Geomatics, Department of Environmental and Life Sciences, Karlstad University, Karlstad, Sweden] was omitted for author [Felicia O. Akinyemi^{1,3}]. This affiliation has now been added for author [Felicia O. Akinyemi^{1,3}].

Affiliation [4World Resources Institute (WRI), Kinshasa, Democratic Republic of Congo] was omitted for author [Denis Jean Sonwa⁴]. This affiliation has now been added for author [Denis Jean Sonwa⁴].

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In the published article, there was a mistake in the **article title**, **page 1** as published.

The title was displayed as: "Tropical ecosystem multifunctionality assessment and insights for sustainable land management: a systematic literature review using the driver-pressure-state-impact-responses framework".

The correct title of the article is "Tropical ecosystem multifunctionality assessment and insights for sustainable land management: a systematic literature review using the Drivers-Pressures-State-Impacts-Responses framework".

In the published article, there was a mistake in Table 2, page 12 as published.

A dividing line between "Pressures" and "State" was omitted to separate the two components.

The headers have been updated within the Table to accurately reflect the contents.

The corrected Table 2 appears below.

The original version of this article has been updated.

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TABLE 2 Unpacking DPSIR: trade-offs, feedback, and multifunctionality in tropical ecosystems.

DPSIR components	Local (short-term)	Local (medium- term)	Regional (short-term)	Regional (long-term)	Global (long-term)	Affected ecosystem functions/ services	Trade-offs/ synergies	Responses/ feedback loops
Drivers (D)								
Indirect drivers	Population growth	People's needs	Ecosystem management practices and decisions	Government policies and strategies		Provisioning and regulation services	Trade-off: ↑provisioning services (e.g. food) → ↓ Regulating services (e.g. carbon storage)	Policy incentives for agroforestry → reduce the intensity of land use change
Direct drivers	Agricultural intensification and expansion	Land use changes	Natural resources exploitation	Logging				
Pressures (P)								
Human behaviour pressures	Industrial development and urbanisation		Market demands		CO ₂ emission and pollution	Biodiversity habitat, nutrient cycling, water and quality	Trade-off: socioeconomic conditions↑ → natural resource conditions↓	Policy incentives for tree planting → water and air regulation
Environmental pressures	Use of chemicals and fertilizers		Hazards					
State (S)								
	Disrupted biotic and abiotic conditions	Declined habitat and biodiversity	Degraded land and soil	Fragmented landscapes	Altered biological diversity and decomposers	Productivity, energy flow	Aggravation: disrupted biogeochemical cycles accelerate ecosystem collapse	Policy incentive for soil restoration → improves soil conditions and fertility
Impacts (I)	1		'		1		1	
Socioeconomic impacts on humans	Reduced human well-being, societal equity and livelihoods		Disrupted biophysical processes		Global biodiversity loss	Provisioning and cultural, regulating services	Aggravation: Insecure land tenure escalates unsustainable resource management	Laws and regulations enforcement for sustainable land management → Enhanced ecosystem services
Impacts on the ecosystem	Reduced ecosystem services provision		Disrupted biophysical processes					
Responses (R)								
Local level	Improving sustainable livelihood strategies and good quality of life	Education and technical training	Sustainable use of natural resources	Community-based ecosystem management	New policies for biodiversity protection, and REDD+ mechanisms	Multiple ecosystem services and functions are enhanced	The combined effect of sustainable practices enhances livelihoods and quality of life	Responses create feedback loops that influence drivers and pressures
National level	Restoration and agroforestry practices	Inclusion of Indigenous and local knowledge (ILK)	Enhance land management and Landscape approach	Multi-stakeholder engagement and multi-scale governance		International regulations to enhance overall ecosystem services and functions	Global and regional science-policy frameworks providing guidance for conservation and sustainable land management	Policy incentives for diversified landscapes → enhanced ecosystem functions and services
International level	Payment for Environmental Services (PES)		Certification/market mechanisms development					

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