

生态记忆及其在生态学中的潜在应用

孙中宇^{1,2},任海^{1*}

1中国科学院华南植物园/中国科学院退化生态系统植被恢复与管理重点实验室| 广州 510650; 2中国科学院研究生院| 北京 100049

Ecological memory and its potential applications in ecology: A review.

SUN Zhong-yu^{1,2}, REN Hai¹

1Key Laboratory of Vegetation Restoration and Management of Degraded Ecosystems, South China Botanical Garden, Chinese Academy of Sciences, Guangzhou 510650, China|2Graduate University of Chinese Academy of Sciences, Beijing 100049, China

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摘要

生态记忆指群落过去的状态或经验影响其目前或未来生态响应的能力.作为研究生态系统结构和功能的一个新视角,生态记忆在群落演替、生态恢复、生物入侵和自然资源管理等多个领域中受到重视.本文在综述生态记忆的概念、组成、类别的基础上,进一步探讨了生态记忆的可能机制和影响因素,并指出了其潜在应用,以期为进一步理解演替机理和指导生态恢复提供参考.

关键词: [生态记忆](#) [组成](#) [形成机制](#) [影响因素](#) [生态恢复](#)

Abstract:

Ecological memory (EM) is defined as the capability of the past states or experiences of a community to influence the present or future ecological responses of the community. As a relatively new concept, EM has received considerable attention in the study of ecosystem structure and function, such as community succession, ecological restoration, biological invasion, and natural resource management. This review summarized the definition, components, and categories of EM, and discussed the possible mechanisms and affecting factors of EM. Also, the potential applications of EM were proposed, in order to further understand the mechanisms of community succession and to guide ecological restoration.

Key words: [ecological memory](#) [component](#) [mechanism](#) [affecting factor](#) [ecological restoration](#)

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