

What about biological corridors? A review on some problems of concepts and their management

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Natural ecosystems are increasingly being affected by climate change and fragmentation, which have a strong impact on biodiversity thus affecting habitats and species diversity of flora and fauna at all levels. As a response to this situation the idea of biological corridors was developed. This review relates the problems associated with the main concepts and definitions of the biological corridors, seeking to highlight the advantages of this tool and describing its potential applicability, and showing the importance of the biological corridors as a solution to improve the conservation of species and so as to support sustainable development in areas of high biodiversity. Examples of biological corridors in several countries are cited and its application guidelines and conservation benefits are described. In conclusion, the need to improve information on habitat and its association with wild species is highlighted through adaptive forestry that is part of a comprehensive management of forest ecosystems. In addition, it is important to monitor the effects of corridors implemented in a feedback process that allows a greater analysis and evaluation of the overall positive effects of their implementation. Finally, some management actions are proposed to improve the conservation of ecosystems. © R. Moreno, C.J. Guerrero-Jimenez.

Biodiversity conservation

Biological corridor

Ecosystem management

Sustainability