Changing perspectives on biodiversity conservation: from species protec-tion to regional sustainability

Jianguo Wu

1 Sino-US Center for Conservation, Energy, and Sustainability Science, Inner Mongolia University, Hohhot, China

2 School of Life Sciences and Global Institute of Sustainability, Arizona State University, P.O. Box 874501, Tempe, AZ 85287, USA

收稿日期 2008-2-22 修回日期 2008-5-6 网络版发布日期 接受日期

摘要 Biodiversity is the basis for ecosystem goods and services that provide for human survival and prosperity. With a rapidly increasing human population and its demands for natural resources, landscapes are being fragmented, habitats are being destroyed, and biodiversity is declining. How can biodiversity be effectively conserved in the face of incr human pressures? In this paper, I review changing perspectives on biodiversity conserv and discuss their relevance to the practice of biodiversity conservation. The major point include: The notion of balance of nature is a myth rather than a scientific concept; the the of island biogeography is useful heuristically but flawed practically; the SLOSS debate is intriguing in theory but ir-relevant in reality; the concept of minimum viable population a population viability analysis are useful, but technically inefficient and conceptually inade metapopulation theory is mathematically elegant but ecologically oversimplistic; and integrative perspectives and approaches for biodiversity conservation are needed that incorporate insights from landscape ecology and sustainability science. I further discuss key principles for regional conservation planning, and argue that the long-term success biodiversity con-servation in any region will ultimately depend on the economic and soci sustainability of that region. Both research and practice in biodiversity conservation, therefore, need to adopt a broader perspective of sustain-ability

关键词 <u>biodiversity</u> <u>conservation biology</u> <u>landscape ecology</u> <u>sustainability science</u>

分类号

DOI: 10.3724/SP.J.1003.2008.08037

通讯作者: Jianguo Wu <u>Jingle.Wu@asu.edu</u> 作者个人主页: Jianguo Wu

	扩展功能
gional	本文信息
	Supporting info
Ρ.Ο.	▶ <u>PDF</u> (93KB)
	▶ <u>[HTML全文]</u> (118KB)
	▶ <u>参考文献[PDF]</u>
	▶ <u>参考文献</u>
	服务与反馈
n	▶ <u>加入我的书架</u>
br	▶ <u>加入引用管理器</u>
d.	▶ <u>引用本文</u>
reasing vation,	▶ <u>Email Alert</u>
ts	▶ <u>文章反馈</u>
theory s	▶ <u>浏览反馈信息</u>
s and	相关信息
equate;	▶ <u>本刊中 包含 "biodiversity"的 相</u>
	<u> </u>
s some	▶本文作者相关文章
s of tial	· <u>Jianguo Wu</u>
Ial	