

黑龙江五大连池的生态价值分析

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An analysis of the ecological value of Wudalianchi, Heilongjiang Province, China

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摘要

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摘要 黑龙江五大连池处于大小兴安岭和松嫩平原的交错地带, 在过去210万年间经历了7次大规模的火山喷发, 是中国保存最为完好的内陆火山遗迹, 2010年被我国政府遴选为世界自然遗产提名地。为了科学、准确地阐述五大连池生态方面的突出普遍价值, 本文在《实施世界遗产公约操作指南》的框架下, 整合野外调查数据和文献资料, 在与其他相关世界遗产地充分比较的基础上, 较为全面地分析了五大连池的生态价值。五大连池植物地理特征交错, 区系来源广泛; 物种组成相对丰富; 发育在熔岩台上的矮曲林反映了植物的特殊适应过程; 特有成因形成了陆生和水生两个完整的植被演替序列; 陆生植被演替同时存在普通演替和斑块动态演替两种模式, 在熔岩地貌上斑块动态演替模式更为随机而高效。上述生态特征充分展示了五大连池正在进行的生物生态过程, 体现了五大连池独特的生态价值, 为后续有效保护和深入科学研究提供了支撑。

关键词: 五大连池 生态价值 植被演替 生态交错区 适应

Abstract: Wudalianchi is located within the ecotone between the Great Hinggan Mountains, the Less Hing-gan Mountains and the forest steppes of the Songnen Plain. As a result of seven volcanic eruptions in the past 2.1 million years, Wudalianchi contains the most well-preserved intra-continental volcanic remains in China, and was nominated in 2010 as a World Heritage Property. In order to state “the outstanding universal values” of the nominated property in terms of biodiversity and ecological processes, we analyzed data from field in-vestigations and scientific literature under the lens of the Operational Guidelines provided by the World Heritage Committee, compared this data with data from other related World Heritage Properties in order to analyze the ecological value of the site. We found the following: the property exhibits intersecting geographic characters of vegetation and extensive floral components; high relative species richness; special adaptations shown by dwarf poplar forests that developed under harsh climatic conditions and poor substrate; two distinct sequences of terrestrial and aquatic vegetation succession that has developed in this area, and patch dynamic succession model on block lava and pahoe-hoe lava was more random and efficient than the normal suc-cession model. All of the above-mentioned characteristics show the on-going biological and ecological process and the outstanding ecological values of the property. We hope that our results will promote further scientific research and protection in this area.

Keywords: Wudalianchi ecological value vegetation succession ecotone adaptation

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