

## 海南岛生物多样性保护优先区评价与系统保护规划

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## Priority areas for biodiversity conservation in Hainan Island: Evaluation and systematic conservation planning.

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- 摘要
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**摘要** 选择海南岛140个濒危物种为指示物种, 在物种栖息地评价的基础上, 利用系统保护规划工具MARXAN模型进行迭代运算, 提出了海南岛生物多样性保护优先区域, 并对保护优先区进行评价. 结果表明: 海南岛保护优先区面积5383.7 km<sup>2</sup>, 占海南岛陆地面积的15.6%, 集中分布于鹦哥岭、尖峰岭、五指山等林区和北部湿地; 在保护优先区中, 11个I级指示物种栖息地的保护比例均超过各自栖息地总面积的65%. 通过对保护优先区与现有自然保护区的空缺分析, 建议扩充尖峰岭保护区群、鹦哥岭-黎母山保护区群、五指山-吊罗山保护区群; 新建抱龙林场-林鼻岭-福万岭保护体系; 在海南岛北部建立以水源保护为主, 同时兼顾珍稀物种保护的水源地保护带.

**关键词:** 海南岛 生物多样性 优先区 系统保护规划 MARXAN模型

**Abstract:** A total of 140 endangered species in Hainan Island were selected as indicator species, and their spatial distribution patterns were analyzed by using mechanism habitat model. Based on the iterative operation with systematic conservation planning tool MARXAN, the priority areas of these species were identified and evaluated. The priority areas had an area of 5383.7 km<sup>2</sup>, accounting for 15.6% of the total land area of the Island, and mainly distributed in some forest regions (Yinggeling, Jianfengling and Wuzhishan) and in northern part water source regions. In the priority areas, the conservation proportion of 11 1st grade indicator species habitats occupied at least 65% of all the habitats. Through the gap analysis of priority areas and current nature reserves, it was suggested that an expansion of Jianfengling, Yinggeling-Limushan, and Wuzhishan-Diaoluoshan nature reserves and the establishment of Baolonglinchang-Linbiling-Fuwanling protection system should be made, and the protection areas for water source conservation and endangered species should be established in the northern part of the Island.

**Key words:** Hainan Island biodiversity priority area systematic conservation planning MARXAN model

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