

研究论文

浙江黑麂栖息地评价及保护对策

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摘要 运用地理信息系统技术, 在分析黑麂栖息地的地形、植被、水系和人为干扰等地理特征的基础上, 系统研究九龙山和古田山自然保护区黑麂栖息地分布、栖息地质量与空间格局。结果表明, 在九龙山自然保护区有黑麂潜在栖息地3172.6hm², 由于人类活动的影响导致栖息地丧失501.5 hm², 目前尚存的黑麂适宜栖息地2671.1 hm²。它们主要分布于上寮坑、九龙山、内北坪、外九龙和大岩前附近区域。古田山自然保护区有黑麂潜在栖息地4635.75 hm², 在人类活动影响下丧失栖息地1118.11 hm², 目前尚存的黑麂适宜栖息地3517.64 hm²。它们主要分布于青尖、古田山、巧观尖、催顶尖附近区域。目前九龙山和古田山自然保护区内的黑麂栖息地基本上处于多斑块破碎化状态。为了使黑麂能得到更好的保护, 对这两个研究区域黑麂栖息地的恢复和重建工作亟待加强。

关键词 [黑麂; 栖息地评价; 地理信息系统](#)

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An assessment and protective strategy of black muntjac (*Muntiacus crinifrons*) habitat in Zhejiang Province

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Abstract Habitat degradation and loss has been widely recognised as the main cause of wildlife population decline. Habitat assessment can provide essential information for wildlife refuge design and management. In this paper, we made a systematical study on the black muntjac distribution, habitat quality and spatial pattern. Firstly, we identified the main factors that influence the black muntjac habitat quality, and set up the habitat assessment criteria. Then we digitized the vegetation map, topographic map, river map, road map and village map by geographical information system(GIS). Thirdly, the habitat distribution and habitat quality were assessed based on the combination of vegetation, elevation, river system and impact of human activities.

The result showed that the potential habitat for black muntjac covered an area of 3172.6hm², and 501.5 hm² habitat were lost due to the disturbance of human activity in Jiulong Mountain Nature Reserve. The present suitable habitat was 2671.1 hm², mostly distributed in Shangliaokeng, Jiulongshan, Neibeiping, Waijiulong and Dayanqian. In Gutian Mountain Nature Reserve, the potential habitat for black muntjac covered an area of 4635.75 hm², and 1118.11 hm² habitat were lost due to the disturbance of human activities. The present suitable habitat was 3517.64 hm², mostly distributed in Qingjian, Gutianshan, Qiaoguanjian and Cuidingjian. At present, the habitat of the black muntjac in two Reserves has been separated and became into habitat patches. It faces big threat from human activities, especially tourism development. Suggestion on habitat conservation has been put forward in this paper.

Key words [black muntjac\(*Muntiacus crinifrons*\); habitat assessment; geographical information system](#)

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