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ECOLOGICAL BASELINE FOR BEIJING'S URBAN SPRAWL: BASIC ECOSYSTEM SERVICES AND THEIR SECURITY PATTERNS

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With Beijing as an example, the minimum ecological security pattern is defined as the essential spatial pattern safeguarding the basic ecosystem services for the city. First, it defines the basic ecosystem services in Beijing, including hydrological regulation, geological disaster prevention, biodiversity and cultural services. Second, based on the theory of landscape security pattern and GIS models, ecological security patterns are designed to manage urban flood and storm water, prevent geological disasters, conserve biodiversity, and protect cultural heritage and recreation. These patterns are integrated into a comprehensive ecological security pattern with different security levels. The minimum ecological security pattern is then used as the framework to delineate future urban growth patterns. The results show that the urban growth pattern based on ecological security pattern maintain the basic ecosystem services with the least land and provide full construction land for the city. It is an effective way towards the smart protection and smart growth.

【Key Words】 : **land use planning ecosystem service landscape security pattern ecological baseline negative approach to planning Beijing**

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- 3 by Kongjian Yu, etc.; Connectivity of Landscape Ecological Process and Patterns A Case Study at Zhongshan City, Guangdong Province[J]; CITY PLANNING REVIEW; 1998-04
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- 2 TIAN Kun~(1,2), MO Jian-feng~2, LU Mei~2, CHANG Feng-lai~2, YANG Yong-xing~3 (1. Northeast Institute of Geography and Agricultural Ecology, The Chinese Academy of Sciences, Changchun 130012, China; 2. Department of Environment Science and Engineering, Southwest Forestry College, Kunming 650224, China; 3. College of Environment Science and Engineering, Tongji University, Shanghai 200092, China); **HUMAN DISTURBANCES ON THE ECOLOGICAL ENVIRONMENT DEGRADATION OF NAPAHA WETLAND IN THE UPSTREAM OF YANGTZE RIVER**[J]; Resources and Environment in the Yangtze Basin; 2004-03
- 3 FENG Wei bo (Dept. of Geography, Chongqing Normal University, Chongqing, 400047, China); **Thoughts on the Economics of Loss and Conservation of Biodiversity**[J]; JOURNAL OF CHONGQING TEACHERS COLLEGE (NATURAL SCIENCE EDITION); 2000-02
- 4 Qiu Bao-xing (Vice minister, Ministry of Construction of P.R. China, Beijing, 100835); **To Be Consolidated the Status and Role of the Systematic Planning of the Towns According Coordination Requirements**[J]; Urban Studies; 2004-01
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