

中国区域城市化模式与生态安全研究

RESEARCH ON
THE REGIONAL URBANIZATION PATTERNS
AND ECOLOGICAL SECURITY IN CHINA

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摘要

随着城市化的快速推进,中国区域城市化发展模式与城市生态安全关系受到国内外学者关注。本书以城市化与生态安全的相关理论为基础,以我国东部、中部、西部和东北地区的人口、经济、社会和生态环境等主要数据资料为依据,构建了区域生态安全综合评价指标体系和"压力-状态-响应模型"(Pressure-State-Response Model, P-S-R模型)。同时,本书运用层次分析法和生态安全综合评价模型,对我国东部、中部、西部和东北四大区域及31个省(区、市)城市化的基本特征及其发展模式、区域生态安全状况、区域城市化与生态安全的耦合关系等进行了系统的研究。

对我国区域城市化过程与生态安全时序关系的基本判断,是明确城市化发展面临的有利条件和制约因素的前提。本书从四大区域的层面分析了我国区域生态安全状况。2010年,东北地区的区域生态安全综合指数是全国四大区域中唯一达到"比较安全"的"良好状态"的地区;但东北三省间存在一定差距。东部、中部和西部,以及全国生态安全综合指数(A)处于区域生态安全分级标准的第Ⅲ级水平,即"基本安全"的"敏感状态"。对区域城市化与生态安全耦合关系综合的分析表明,在未来20年乃至更长时间内,在城市化与生态安全协调演进的过程中,我国区域城市化与生态安全状况将受到诸多因素的影响和制约。其中,既有积极的因素,也存在一系列的制约问题。综合考察我国区域城市化发展模式所反映出的时空特征,及其生态安全特征,东部、中部、西部和东北地区区域城市化与生态安全耦合关系形成了3种具有不同特征的耦合类型;从31个省(区、市)

的角度看,我国区域城市化与生态安全的耦合关系形成了12种不同的耦合类型。我国区域城市化与生态安全的耦合形态发生的时空特征,总体上符合城市化过程中的城市化模式变迁与生态环境相互作用关系的基本规律。

本书在对我国东部、中部、西部和东北地区城市化发展趋势,以及区域生态安全制约因素进行系统分析的基础上,提出了生态安全视角下我国城市化发展模式的战略选择和对策建议。本书认为,从保障并实现生态安全的视角考察我国区域城市化,由于受历史、地理条件和社会经济发展水平等多种因素的影响,我国生态资源和城市化的区域发展很不平衡,未来区域城市化具体推进路径的选择,应该以《全国主体功能区规划》为指导,依据区域经济社会发展的实际情况,坚持区域统筹和城乡统筹的原则,在梯次推进东部、中部、西部和东北地区城市化的进程中,选择具有区域特色的城市化发展模式。另外,在积极推进区域城市化进程的同时,要保障并提升区域生态安全水平。

Abstract

With the rapid advance of urbanization, the relationship between the development patterns of regional urbanization and urban ecological security in China is being concerned by scholars at home and abroad. Based on the related theory of urbanization and ecological security, and the main data of population, economy, society and ecological environment in the east, middle, west and northeast of China, this book constructs the comprehensive evaluation index system of regional ecological security and "Pressure-State-Response model" as "P - S - R model". By using the analytic hierarchy process and the comprehensive evaluation model of ecological security, the basic characteristics and development pattern of urbanization, the regional ecological security situation and the coupling relationship between regional urbanization and ecological security in eastern, central, western and northeastern China and 31 provinces (regions and municipalities), were systematically studied.

The basic judgment of the sequential relationship between the process regional urbanization and ecological security in China is the premise to clear the favorable conditions and constraints facing the development of urbanization. This book analyses the regional ecological security situation in China from the four regional level. In 2010, the regional ecological security comprehensive index of the northeast region is a "good condition" region, and it is the only one of the four regions in the whole country to achieve "relatively safe". But there is a certain gap between the

three provinces in Northeast China. Eastern, central and western, as well as the national ecological security index (A) are in the third level of the regional ecological security classification standards, as the "sensitive state" of "basic security" A comprehensive analysis of the coupling relationship between regional urbanization and ecological security shows that in the next 20 years or even longer period of time, in the process of the coordinated development of urbanization and ecological security, the situation of regional urbanization and ecological security in China will be affected by many factors. Among the elements, both positive factors and a series of constraints exist. By studying the spatiotemporal and ecological security characteristics of regional patterns in China, the coupling relationship between urbanization and ecological security in the eastern, central, western and northeastern regions can be summarized as three coupling types with different characteristics. Among them, there are not only positive factors, but also a series of constraints. By comprehensively investigating the temporal and spatial characteristics and the ecological security features of the development pattern of China's regional urbanization reflected, the coupling relationship between regional urbanization and ecological security in eastern, middle and western regions and Northeast China has formed 3 kinds of coupling types with different characteristics. The spatiotemporal characteristics of the coupling of regional urbanization and ecological security in China are in line with the regular patter of the relationship between urbanization and ecological environment interaction in the process of urbanization. From the view of 31 provinces (autonomous regions and municipalities) on the continent, the coupling relationship between regional urbanization and ecological security in China has formed 12 different types of coupling. The temporal and spatial characteristics of the coupling patterns of regional urbanization and ecological security in China, in general accord with the basic law of the interaction between urbanization and ecological environment in the process of urbanization.

Based on the analysis of the forecast of urbanization development trend in eastern, central, western and eastern regions of China and the systematical analy-

sis of regional ecological security constraints, this book puts forward the strategic choice and countermeasures of urbanization development model in China from the perspective of ecological security. It is considered that the regional urbanization in China is investigated from the perspective of guaranteeing and realizing ecological security. Due to the Influence of historical, geographical conditions and social and economic development level and other factors, the regional development of ecological resources and urbanization in our country is not balanced. The choice of the specific promotion path of the future regional urbanization, should be based on the "national main functional area planning" as the guide, according to the actual situation of regional economic and social development, insisting on the principles of regional co-ordination and urban and rural co-ordination, in advance the urbanization process in the eastern, western and northeast in china, selecting the regional characteristics of the urbanization development model While actively promoting the process of regional urbanization, guaranteeing and promoting the level of regional ecological security.

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