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# The Main Terrestrial Ecosystem Services and Ecological Security in China

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Ecosystem service has become a hot topic in international ecological research with two major trends of advancing ecosystem service mechanism and regional integration methodologies. At the same time, terrestrial ecosystem service research is a great national science and strategic need for ecological restoration, ecological functional regionalization, ecological compensation, and sustaining ecological security. Targeting this necessity and the international research frontiers of ecosystem service, this project takes main terrestrial ecosystems in China as the object of research. There are three scientific themes that will be tackled: ① the interaction between ecosystem structure, process and services; spatiotemporal coupling and scale effects of ecosystem service; ② regional ecosystem service assessment and integration modeling. Through the above, it is managed to promote the development of ecosystem service theory and applications to scientifically support national ecological rehabilitation and environmental protection.

【Key Words】 : **Ecosystem service Ecosystem process Ecological security Scaling.**

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