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前植物生产层

我国草地生态系统碳循环机制及碳蓄积核算研究回顾与展望

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摘要：

碳循环与碳蓄积等问题日益成为气候变化与地球科学研究领域的前沿与热点问题，其中，草地生态系统作为独特的生态系统类型又是全球碳循环中最复杂、受人类影响最大的部分。本研究从草地在气候变化中的作用谈起，介绍了CO2浓度变化、碳失汇与草地生态系统的关系，并重点介绍了陆地生态系统与草地生态系统各自的碳循环过程及影响碳循环的因素。总结了不同研究中，我国草地碳储量及分布格局，分析了碳循环过程中源汇关系，指出当前研究中存在的问题和今后工作的努力方向，为我国草地生态系统碳蓄积及碳循环特征研究提供参考。

关键词： 全球变化 草地生态系统 碳蓄积 碳循环 源汇关系

Retrospect and prospect of carbon circle mechanism and carbon storage calculation of grassland ecosystem in China

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Abstract:

The carbon cycle and carbon storage becomes a hot spot in the filed of geo science and global change in recent years, in which the grassland ecosystem as the unique type of ecological system is the most important and the most complicated part affected by man. This study reviewed the role of grassland in the global change, the relationships between the change of CO2 concentration and missing carbon sink and the grassland ecosystem, emphasized on the carbon circle process of the terrestrial ecosystem and grassland ecosystem and factors affecting the carbon circle. This study also summarized the carbon storage value and distribution pattern of grassland ecosystem in China, and the relationships between the source and sink in the process of carbon circle by current documents and papers, and then proposed the some current problems and a perspective of carbon circle, which would provided some useful information for carbon circle and carbon storage of the grassland ecosystem in China.

Keywords: global change grassland ecosystem carbon storage carbon cycle the link between carbon source and carbon

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