

综述

## 植物物候遥感监测研究进展

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**摘要** 基于遥感监测方法的植物物候研究已成为全球气候变化研究的一个热点课题,通过对植物物候生长季概念的遥感界定,归纳总结了物候监测的基本原理、遥感数据源以及4种常用的遥感监测方法,并指出各种遥感监测方法存在的问题和不足;以遥感监测技术为支撑,对地区、大洲和全球尺度上物候与气候关系的研究、物候与人类行为关系的研究进行了阐述,指出植物物候的变化常常是二者共同影响的结果。针对当前物候研究中存在的不足,探讨了今后的研究发展方向。

**关键词** [植物物候](#) [遥感监测](#) [气候](#) [人类行为](#) [研究进展](#)

分类号

## Advance in vegetation phenology monitoring based on remote sensing

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**Abstract** With the development of remote sensing technique, the detection on vegetation phenology and its mechanism using remote sensing data on regional or global scales have become advanced topics in geography and ecology. The concept of vegetation phenology growth season was determined by remote sensing method. The basic principle, remote sensing data sources and four remote sensing monitoring methods related to phenology monitoring were summarized. At the same time, the problems and deficiencies of different remote sensing monitoring methods were pointed out. The relationships between vegetation phenology and climate on regional, continental and global scales and between vegetation phenology and human activities were expounded. It indicates that the changes of vegetation phenology are the results of both interactions. At last, the research tasks are discussed in the future.

**Key words** [Vegetation phenology](#) [Remote sensing monitoring](#) [Climate](#) [Human activities](#) [Progress](#)

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