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盘锦湿地芦苇物候特征及其对气候变化的响应

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摘要 基于1987~1993年盘锦湿地芦苇(*Phragmites communis*)物候数据,分析了芦苇的萌动期、展叶期、开花期和枯黄期的物候特征,探讨了芦苇物候期与气候因子的关系,并利用2种积温模型模拟了芦苇的展叶期和开花期。结果表明:芦苇的展叶期和开花期具有相同的变化趋势,芦苇的枯黄期变化较小;3月和4月平均气温与芦苇展叶呈显著相关,年平均气温与芦苇展叶盛期和开花盛期呈显著相关,芦苇枯黄盛期与年降水量显著相关;积温模型可有效地预测芦苇的展叶期。

关键词 [湿地](#) [芦苇](#) [物候](#) [模拟](#) [气候变化](#) [响应](#)

分类号

The characteristics of *Phragmites* phenology in Panjin wetland and its responses to climatic change

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Abstract Based on *Phragmites* phenological data from 1987 to 1993 in Panjin wetland, the characteristics of the germination stage, leafing stage, flowering stage and fade stage of *Phragmites* were analyzed in this paper. The relationships between climatic factors and *Phragmites* phenologies were discussed. Two temperature-based phenological models were used to simulate the leafing and flowering stages of *Phragmites*. The results showed that the trend of leafing stage was same with that of flowering stage, and the variety of the fade stage was slight. The average temperature in March and April had significant correlation with *Phragmites* leafing, the annual average temperature was significant correlation with leafing and flowering of *Phragmites*, and the annual precipitation was significant correlation with fade of *Phragmites*. The temperature-based phenological model can simulate the leafing of *Phragmites* very well.

Key words [Wetland](#) [Phragmites](#) [Phenology](#) [Simulation](#) [Climatic change](#) [Response](#)

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