## 大气成分与天气、气候变化专栏

## 1961-2006年湖南省霾现象的变化特征

廖玉芳 吴贤云 潘志祥 赵福华 祝燕德 段丽洁 李超

湖南省气候中心

收稿日期 2007-2-28 修回日期 2007-6-25 网络版发布日期: 2007-9-30

摘要 利用1961-2006年湖南省97个市(县)地面气象观测资料,分析了霾现象的变化特征,结果表明:20世 纪70年代以来,湖南年霾日急剧增多,极值不断被刷新,强度增强,重度霾出现范围增大。统计分析表明: 46 a 来湖南年平均风速线性减小,年降水日数波动性减少,年平均日最小相对湿度≤70%的日数增多。气候变化、城 市化进程加快、大气污染物排放量增加是引起霾出现频率增加的可能原因。

霾 气候变化 污染 城市化 关键词

分类号

## Climatic Characteristics of Haze in Hunan Province Durin a 1961-2006

**Abstract** Based on the surface meteorological data at 97 stations of Hunan Province during 196 1-2006, climatic characteristics of the weather phenomenon of haze were analyzed. Results show that, since the 1970s, haze days has increased quickly, its extremum has been renewed more freq uently, the intensity of haze is strengthening and the area of heavy haze is widening. In the last 46 y ears, the annual average wind speed in Hunan Province declined linearly, the yearly total rain days decreased wavely, the days with relative humidity  $\leq 70\%$  increased. Climate change, speed up of urbanization and the increase in air pollutant are likely the basic causes of more haze phenomena.

## ▶ [PDF全文](3630KB)

扩展功能

- ▶[HTML全文](0KB)
- ▶参考文献

本文信息

► Supporting info

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶ Email Alert
- ▶文章反馈
- ▶浏览反馈信息

相关信息

- ▶ 本刊中 包含"霾"的 相关文章
- ▶本文作者相关文章
- 廖玉芳
- 吴贤云
- 潘志祥
- 赵福华
- 祝燕德
  - 段丽洁
  - 李超

**Key words** haze climate change pollution urbanization

DOI

通讯作者 廖玉芳 lyf\_13975681873@163.com