

Letters

# Long-term Trend of Tropospheric Ozone over the Yangtze Delta Region of China

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

摘要  
关键词  
分类号

## Long-term Trend of Tropospheric Ozone over the Yangtze Delta Region of China

Xu Xiaobin<sup>1</sup>; Lin Weili<sup>1</sup>; Wang Tao<sup>2</sup>; et al.

1 Key Laboratory for Atmospheric Chemistry, Centre for Atmosphere Watch and Services, Chinese Academy of Meteorological Sciences, China Meteorological Administration, Beijing 100081, China; 2 Department of Civil and Structural Engineering, Hong Kong Polytechnic University, Hong Kong, China

**Abstract** Analysis of tropospheric ozone residual (TOR) data from satellite measurements indicates an increasing trend of tropospheric ozone over the Yangtze Delta region of China. The increasing trend can be derived both from the annual mean TOR and from the monthly mean TOR except for January and March. The increase rate of the decadal mean TOR was 0.82 DU during 1978-2000. The impact of this long-term trend on the climate and atmospheric oxidizing capacity over the region should be further studied. Data comparison shows a significant correlation between the TOR and surface ozone data collected at Lin'an background station in the Yangtze Delta region, suggesting an internal connection between both quantities.

**Key words** [tropospheric ozone](#) [long-term trend](#) [the Yangtze Delta](#)

DOI

通讯作者 [xuxb@cma.gov.cn](mailto:xuxb@cma.gov.cn)

扩展功能	
本文信息	
▶	<a href="#">Supporting info</a>
▶	<a href="#">[PDF全文](332KB)</a>
▶	<a href="#">[HTML全文](0KB)</a>
▶	<a href="#">参考文献</a>
服务与反馈	
▶	<a href="#">把本文推荐给朋友</a>
▶	<a href="#">加入我的书架</a>
▶	<a href="#">Email Alert</a>
▶	<a href="#">文章反馈</a>
▶	<a href="#">浏览反馈信息</a>
相关信息	
▶	<a href="#">本刊中 无 相关文章</a>
▶	<a href="#">本文作者相关文章</a>