

ISSN 1001-7313

JOURNAL OF APPLIED  
METEOROLOGICAL  
SCIENCE

应用气象学报

·2013·

第24卷 第2期 Vol.24 No.2

ISSN 1001-7313



9 771001 731026



气象出版社

# JOURNAL OF APPLIED METEOROLOGICAL SCIENCE

Vol. 24, No. 2, April 2013

## CONTENTS

### ARTICLES

- Causal Analysis of Consecutive Torrential Rains in Guangdong Province Before the Onset of South China Sea Monsoon .....  
... Wu Naigeng, Lin Liangxun, Zeng Qin, Wu Zhifang, Jin Ronghua, Deng Wenjian (129)
- Weather Impacts on Air Quality of the World Expo in Shanghai ... Chen Min, Ma Leiming,  
Wei Haiping, Shi Hong, Ma Jinghui, Zhou Guangqiang, Gu Songqiang, Zhang Guolian (140)
- Characteristics of Atmospheric Pollutants at Dinghushan Station During the Asian Games in  
Guangzhou ..... Chen Lin, Wang Lili, Ji Dongsheng, Wang Shigong, Wang Yuesi (151)
- The Application of the Local Analysis and Prediction System to GRAPES .....  
..... Liu Chunwen, Lin Yonghui, Cao Yancha (162)
- Comparison of Two Verification Methods for 6 h Precipitation Forecasts of Regional Models  
..... Wang Yu, Gong Ying, Chen Fajing, Zhang Kun, Zhao Tianhao (171)
- An Experiment Study of All-sky Cloud Amount Observation Based on Infrared Real-time  
Threshold ..... Hu Shuzhen, Ma Shuqing, Tao Fa, Qiao Xiaoyan, Zhang Chunbo (179)
- Numerical Simulation of Effects of Building Tip on Atmospheric Electric Field Distortion ...  
..... Guo Xiufeng, Tan Yongbo, Guo Fengxia, Shi Zheng, Wang Ningning (189)
- Environment Characteristics and Causes of a Continuous Hail Fall Event Occurred Within the  
Cold Air Mass to the North of a Cold Front .....  
..... Xu Aihua, Chen Yunhui, Chen Tao, Zhang Juanjuan (197)
- Evolutions and Cloud-to-ground Lightning Features of Two Mesoscale Convective Thunder  
Storm Systems in Yunnan .....  
..... Zhang Tengfei, Yin Liyun, Zhang Jie, Xie Yiran, Zhu Li (207)
- Characteristics and Conceptual Models of Convective Rainstorm Clouds in Henan Province ...  
..... Su Aifang, Sun Jinglan, Gu Xiujie, Lü Xiaona, Chen Weimin (219)
- Characteristics of GPS Vapor in a Persistent Heavy Rainfall Related to Southwest Vortex ...  
..... Hao Liping, Deng Jia, Li Guoping, Yang Jingqing (230)
- Rice Growth Model Based on Energy Model ..... Liu Chun, Zhang Chunhui, Guo Sasa (240)
- The Multiple-meteorological-factor Indexes for Orange Frozen Injury in Jiangxi Province ...  
..... Yang Aiping, Du Xiaoling, Wang Baosheng, Guo Ruige, Liu Wenyi (248)

# 应用气象学报

第 24 卷 第 2 期

## 目 次

### 论 著

- 南海季风爆发前罕见连续 3 场暴雨特征及成因 .....  
..... 吴乃庚, 林良勋, 曾 沁, 伍志方, 金荣花, 邓文剑 (129)
- 气象条件对上海世博会期间空气质量影响 .....  
..... 陈 敏, 马雷鸣, 魏海萍, 施 红, 马井会, 周广强, 顾松强, 张国琏 (140)
- 广州亚运会期间鼎湖山站大气污染特征 ..... 陈 林, 王莉莉, 吉东生, 王式功, 王跃思 (151)
- 局地分析预报系统在 GRAPES 模式中的应用 ..... 刘春文, 林永辉, 曹艳察 (162)
- 区域业务模式 6 h 降水预报检验方案比较 ..... 王 雨, 公 颖, 陈法敬, 张 昆, 赵天昊 (171)
- 基于红外实时阈值的全天空云量观测 ..... 胡树贞, 马舒庆, 陶 法, 乔晓燕, 张春波 (179)
- 建筑物尖端对大气电场畸变影响的数值计算 ..... 郭秀峰, 谭涌波, 郭凤霞, 师 正, 王宁宁 (189)
- 锋面北侧冷气团中连续降雹环境场特征及成因 ..... 许爱华, 陈云辉, 陈 涛, 张娟娟 (197)
- 云南两次中尺度对流雷暴系统演变和地闪特征 ..... 张鹏飞, 尹丽云, 张 杰, 谢屹然, 朱 莉 (207)
- 河南省对流性暴雨云系特征与概念模型 ..... 苏爱芳, 孙景兰, 谷秀杰, 吕晓娜, 陈渭民 (219)
- 一次西南涡持续暴雨的 GPS 大气水汽总量特征 ..... 郝丽萍, 邓 佳, 李国平, 杨锦青 (230)
- 基于能量模型的水稻生长模型 ..... 刘 春, 张春辉, 郭萨萨 (240)
- 江西省多气象要素的柑橘冻害指标 ..... 杨爱萍, 杜筱玲, 王保生, 郭瑞鸽, 刘文英 (248)

### 消 息

- 《应用气象学报》征稿简则 ..... (150)
- 欢迎订阅《应用气象学报》 ..... (239)