

大 气 科 学

DAQI KEXUE

(双月刊)

2013 年 5 月 15 日 第 37 卷 第 3 期

目 次

基于 TIGGE 资料的沂沭河流域 6 小时降水集合预报能力分析	
..... 刘永和 严中伟 冯锦明 张可欣 裴洪芹 (539)	
一次南海海雾微物理结构个例分析	张舒婷 牛生杰 赵丽娟 (552)
迭代集合平方根滤波在风暴尺度资料同化中的应用	王世璋 闵锦忠 陈杰 杨春 (563)
南京地区大气冰核浓度的测量及分析	杨磊 银燕 杨绍忠 蒋惠 肖辉 陈倩 苏航 陈聪 (579)
华东地区一次飑线过程的数值模拟与诊断分析	李娜 冉令坤 高守亭 (595)
湛江地区近海岸雾产生的天气条件及宏微观特征分析	岳岩裕 牛生杰 赵丽娟 张羽 徐峰 (609)
Winnie (9711) 台风变性加强过程中的降水变化研究	李英 陈联寿 雷小途 (623)
未来气候变化对黄河和长江流域极端径流影响的预估研究	曹丽娟 董文杰 张勇 (634)
降水资料同化在 GRAPES-MESO 模式中应用试验研究	王叶红 赖安伟 赵玉春 王明欢 (645)
亚洲东部冬季地面温度变化与平流层弱极涡的关系	易明建 陈月娟 周任君 毕云 邓淑梅 (668)
影响我国北方冬半年气旋的气候特征及年际变率	符娇兰 董林 康志明 (679)
基于 CloudSat 卫星资料分析东太平洋台风的云、降水和热力结构特征 ...	韩丁 严卫 叶晶 刘会发 (691)
2012 年 7 月 21 日北京特大暴雨的多尺度特征	孙建华 赵思雄 傅慎明 汪汇洁 郑淋淋 (705)
我国华南 3 月份降水异常的可能影响因子分析	李宏毅 林朝晖 宋燕 陈红 许建玉 (719)
夏季乌拉尔长阻塞过程及其与热带热力异常关系个例分析	李子仪 李双林 李国平 (731)
CH ₄ 和 N ₂ O 的辐射强迫与全球增温潜能	张华 张若玉 何金海 吴金秀 (745)
关于东亚冬季风指数的一个讨论——东亚中、低纬冬季风的差异	
..... 刘舸 纪立人 孙淑清 辛羽飞 (755)	
2012 年国家自然科学基金资助项目一览表	(765)

Chinese Journal of Atmospheric Sciences

(Bimonthly)

Vol.37, No.3, 15 May 2013

CONTENTS

Predictability of 6-Hour Precipitation in the Yishu River Basin Based on TIGGE Data	
..... LIU Yonghe, YAN Zhongwei, FENG Jinming, ZHANG Kexin, and PEI Hongqin (539)	
The Microphysical Structure of Fog Droplets in a Sea Fog Event in the South China Sea	
..... ZHANG Shuting, NIU Shengjie, and ZHAO Lijuan (552)	
Application of Iterative Ensemble Square-Root Filter in Storm-Scale Data Assimilation	
..... WANG Shizhang, MIN Jinzhong, CHEN Jie, and YANG Chun (563)	
Measurement and Analysis of Atmospheric Ice Nuclei in Nanjing	
.....YANG Lei, YIN Yan, YANG Shaozhong, JIANG Hui, XIAO Hui, CHEN Qian, SU Hang, and CHEN Cong (579)	
Numerical Simulation and Diagnosis Study of a Squall Line in Eastern China	
..... LI Na, RAN Lingkun, and GAO Shouting (595)	
Study on the Synoptic System and Macro-Micro Characteristics of Sea Fog along the Zhanjiang Coastal Area	
.....YUE Yanyu, NIU Shengjie, ZHAO Lijuan, ZHANG Yu, and XU Feng (609)	
Study on Rainfall Variation Associated with Typhoon Winnie (9711) during its Extratropical Transition Process	
..... LI Ying, CHEN Lianshou, and LEI Xiaotu (623)	
Estimation of the Effect of Climate Change on Extreme Streamflow over the Yellow River and Yangtze River Basins	
.....CAO Lijuan, DONG Wenjie, and ZHANG Yong (634)	
Application of Precipitation Data Assimilation in the GRAPES-MESO Model	
..... WANG Yehong, LAI Anwei, ZHAO Yuchun, and WANG Minghuan (645)	
Relationship between Winter Surface Temperature Variation in Eastern Asia and Stratospheric Weak Polar Vortex	
..... YI Mingjian, CHEN Yuejuan, ZHOU Renjun, BI Yun, and DENG Shumei (668)	
Climatology and Interannual Variability of Extratropical Cyclones in the Winter Half-Year in Northern China	
.....FU Jiaolan, DONG Lin, and KANG Zhiming (679)	
Analyzing Cloud, Precipitation, and Thermal Structure Characteristics of Typhoons in Eastern Pacific Based on CloudSat Satellite Data	
..... HAN Ding, YAN Wei, YE Jing, and LIU Huifa (691)	
Multi-Scale Characteristics of Record Heavy Rainfall over Beijing Area on July 21, 2012	
..... SUN Jianhua, ZHAO Sixiong, FU Shenming, WANG Huijie, and ZHENG Linlin (705)	
Analysis of the Possible Factors that Influence March Precipitation Anomalies over South China	
..... LI Hongyi, LIN Zhaohui, SONG Yan, CHEN Hong, and XU Jianyu (719)	
Analysis of Longstanding Summer Blocking Highs over the Ural Mountains and Their Relationship with Tropical Thermal Anomalies	
..... LI Ziyi, LI Shuanglin, and LI Guoping (731)	
Radiative Forcing and Global Warming Potentials of CH ₄ and N ₂ O	
..... ZHANG Hua, ZHANG Ruoyu, HE Jinhai, and WU Jinxiu (745)	
A Discussion on the East Asian Winter Monsoon Index—Differences between the East Asian Winter Monsoon at Mid-high and Low Latitudes	
..... LIU Ge, JI Liren, SUN Shuqing, and XIN Yufei (755)	