

大 气 科 学

DAQI KEXUE

(双月刊)

2015 年 3 月 15 日 第 39 卷 第 2 期

目 次

印度洋—西太平洋对流涛动的季节内特征	张净雯 李建平 李艳杰 (221)
东亚地区云微物理量分布特征的 CloudSat 卫星观测研究 ...	张华 杨冰韵 彭杰 王志立 荆现文 (235)
基于 TRMM 资料的高原涡与西南涡引发强降水的对比研究	蒋璐君 李国平 王兴涛 (249)
青藏高原未来气候变化预估: CMIP5 模式结果	胡琴 姜大膀 范广洲 (260)
BCC_CSM 模式夏季关键区海温回报评估	汪栩加 郑志海 封国林 王阔 申茜 (271)
冰晶核化对雷暴云微物理过程和起电影响的数值模拟研究	
..... 谭涌波 杨忆 师正 周博文 张冬冬 廖义慧 (289)	
基于空间梯度信息的质量控制方法在红外高光谱 AIRS 资料同化中的应用研究	
..... 王云峰 张晓辉 李运飞 韩月琪 顾成明 (303)	
积层混合云结构特征及降水机理的个例模拟研究	何晖 高茜 刘香娥 周嵬 贾星灿 (315)
非线性局部 Lyapunov 指数方法在目标观测中的应用初探	刘德强 丁瑞强 李建平 冯杰 (329)
参加 CMIP5 计划的四个中国模式模拟的东亚地区降水结构特征及未来变化	林壬萍 周天军 (338)
近 20 年中国土地利用变化影响区域气候的数值模拟	陈海山 李兴 华文剑 (357)
华北一次积层混合云微物理和降水特征的数值模拟与飞机观测对比研究	朱士超 郭学良 (370)
高分辨率 MRI 模式对青藏高原夏季降水及水汽输送通量的模拟	冯蕾 周天军 (385)
一次台风变性并入东北冷涡过程的动力诊断分析	梁钊明 王东海 (397)
南半球中纬度偶极模态与亚洲—非洲夏季降水	明静 孙建奇 李国平 裴军林 (413)
热带风暴“Bilis”(0604)暴雨增幅前后的水汽输送轨迹路径模拟	
..... 戴竹君 王黎娟 管兆勇 任晨平 李业进 (422)	
2007/2008 和 2008/2009 冬季平流层强、弱极涡事件对应的行星波活动的对比分析	
..... 邓淑梅 陈月娟 易明建 (433)	

Chinese Journal of Atmospheric Sciences

(Bimonthly)

Vol.39, No.2, 15 March 2015

CONTENTS

Intraseasonal Characteristics of the Indo–West Pacific Convection Oscillation	
.....	ZHANG Jingwen, LI Jianping, and LI Yanjie (221)
The Characteristics of Cloud Microphysical Properties in East Asia with the CloudSat Dataset	
.....	ZHANG Hua, YANG Bingyun, PENG Jie, WANG Zhili, and JING Xianwen (235)
Comparative Study Based on TRMM Data of the Heavy Rainfall Caused by the Tibetan Plateau Vortex and the Southwest Vortex	
.....	JIANG Lujun, LI Guoping, and WANG Xingtao (249)
Climate Change Projection on the Tibetan Plateau: Results of CMIP5 Models	
.....	HU Qin, JIANG Dabang, and FAN Guangzhou (260)
Summer Prediction of Sea Surface Temperatures in Key Areas in BCC_CSM Model	
.....	WANG Xujia, ZHENG Zhihai, FENG Guolin, WANG Kuo, and SHEN Qian (271)
Numerical Simulation Research on the Effect of Ice Nucleation on Thundercloud Microphysical Process and Electrification	
.....	TAN Yongbo, YANG Yi, SHI Zheng, ZHOU Bowen, ZHANG Dongdong, and LIAO Yihui (289)
Application of Quality Control Method Based on Spatial Gradient Information in Assimilation of Infrared High Spectrum Data AIRS	
.....	WANG Yunfeng, ZHANG Xiaohui, LI Yunfei, HAN Yueqi, and GU Chengming (303)
Numerical Simulation of the Structural Characteristics and Precipitation Mechanism of Stratiform Clouds with Embedded Convections	
.....	HE Hui, GAO Qian, LIU Xiang'e, ZHOU Wei, and JIA Xingcan (315)
Preliminary Application of the Nonlinear Local Lyapunov Exponent to Target Observation	
.....	LIU Deqiang, DING Ruiqiang, LI Jianping, and FENG Jie (329)
Reproducibility and Future Projections of the Precipitation Structure in East Asia in Four Chinese GCMs That Participated in the CMIP5 Experiments	
.....	LIN Renping and ZHOU Tianjun (338)
Numerical Simulation of the Impact of Land Use/Land Cover Change over China on Regional Climates during the Last 20 Years	
.....	CHEN Haishan, LI Xing, and HUA Wenjian (357)
A Case Study Comparing WRF-Model-Simulated Cloud Microphysics and Precipitation with Aircraft Measurements in Stratiform Clouds with Embedded Convection in Northern China	
.....	ZHU Shichao and GUO Xueliang (370)
Simulation of Summer Precipitation and Associated Water Vapor Transport over the Tibetan Plateau by Meteorological Research Institute Model	
.....	FENG Lei and ZHOU Tianjun (385)
A Diagnostic Study of a Typhoon Transitioning and Merging into the Northeast Cold Vortex	
.....	LIANG Zhaoming and WANG Donghai (397)
Dipole Pattern in Southern Hemispheric Mid-latitude and Asian–African Summer Precipitation	
.....	MING Jing, SUN Jianqi, LI Guoping, and PEI Junlin (413)
Simulation of Water Vapor Transport Paths before and after Increased Rainstorms from Tropical Storm Bilis (0604)	
.....	DAI Zhujun, WANG Lijuan, GUAN Zhaoyong, REN Chenping, and LI Yejin (422)
A Comparative Analysis of Planetary Wave Activities for the 2007/2008 Strong Polar Vortex and the 2008/2009 Weak Polar Vortex	
.....	DENG Shumei, CHEN Yuejuan, and YI Mingjian (433)