

图书基本信息

书名：<<北京2008奥运预报示范项目报告>>

13位ISBN编号：9787502951566

10位ISBN编号：7502951563

出版时间：2011-3

出版时间：王建捷、等 气象出版社 (2011-03出版)

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页数：145

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内容概要

《北京2008奥运预报示范项目报告（英文版）》综合了“北京2008奥运会天气预报示范和研究开发项目”的子项目“短期临近预报示范”（B08FDP）的部分成果，分为两篇进行介绍，第一篇是B08FDP的项目报告；第二篇是B08FDP中的BJANC和VDRAS，CARDS，RAPES-SWIFT，MAPLE，NIWOT，STEPS，SWIRLS,TIFS等8个临近预报系统及相关内容。

书籍目录

Preface
Executive Summary
Part . Summary Report of the Project
1 Background, Rationale and Goals of the project
2 Participating Systems and Executive Organization
3 Implementation the of B08FDP
4 Discussions and Conclusions
Appendix A. Product List of the B08FDP
Appendix B. Milestones of the WWRP B08FDPPart .
Summary Reports of Participants
Summary Report on BJANC and VDRAS
Summary Report on CARDSS
Summary Report on GRAPES-SWIFT
Summary Report on MAPLE
Summary Report on NIWOT
Summary Report on STEPS
Summary Report on SWIRLS
Summary Report on TIFSS
Summary Report on B08FDP Data Environment
Summary Report on RTFV and Verification
Summary Report on Social and Economic Impact Assessment

章节摘录

版权页：插图：Severe squalls——the sub-system for downburst squalls nowcasting is called BLAAST (Buoyancy contribution and Loading effect of rain water to Air parcel Acceleration in Squally Thunderstorms). The conceptual model adopted here refers to the descending forces that create a downburst, namely the combined effect of negative buoyancy as a result of evaporative cooling of falling rain drops and the water loading effect on an air parcel. The latter effect manifested itself under radar surveillance as the vertically integrated liquid water, a quantity readily available from typical radar processing software (Yeung et al. 2008, 2009). Hail——the hail nowcasting sub-system is called BRINGO (Buoyancy-supported Rimed Ice Nugget and Graupel Overhang). Its design was based on the automatic detection of over-hanging intense radar echoes, typically found in hailstorms as a result of strong inflow and buoyancy in the riming process for ice or graupel (Yeung et al. 2009).

编辑推荐

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