

《北京2008奥运预报示范项目簿

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

出版社：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。

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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).

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编辑推荐

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