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论文

黄海、东海海域出海气旋发展过程中尺度数值模拟

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摘要: 利用MM5中尺度模式对1999年6月两个出海气旋发展过程进行数值模拟. 数值模拟的气旋出海后移动路径与实际情况基本一致. 在数值模拟基础上重点讨论了出海气旋发展过程潜热通量和感热通量的分布及其演变情况. 气旋出海后在气旋中心区南方和东方存在负潜热通量和感热通量区. 出海气旋的东移和发展, 其前方强大正热通量区的存在可能是重要原因之一.

关键词: 数值模拟 出海气旋 潜热通量 感热通量 黄海、东海海域

MESO SCALE NUMERICAL SIMULATION IN DEVELOPING PROCESS OF CYCLONE MOVED TO SEA IN YELLOW SEA AND EAST CHINA SEA ZHOU MINGYU

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Abstract: A numerical simulation was made for developing processes of two cyclones going to sea in June 1999 by using the MM5 meso scale model. The calculated moving pathes of the cyclones over ocean area is consisten t

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with the observations. The distribution and variation of latent and sensible heat fluxes of the cyclones were discussed based on the numerical simulation. There are negative latent and sensible heat fluxes in south and east of the cyclone central area after it moved to ocean. A strong positive heat flux area in the front of cyclone may be one of important reasons for eastward movement and development of cyclone going to sea.

Keywords: Numerical simulation Cyclone going to sea Latent heat flux Sensible heat flux Yellow Sea and East China Sea.

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