

地球惑星科学専攻 地球科学輻合部特別講演会

日時：11月14日(金) 16:30-18:00

場所：京都大学理学部 6号館 201号室

講演者：Laitpharlang Cajee
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講演題目：Post Monsoon Cyclonic disturbance in Bay of Bengal
- A case study of Sdir -

講演要旨：

The Indian sub-continent is a land with unique climatic regime with two cyclonic seasons that is pre and post monsoon disturbances. Atmospheric depressions at local scale generate tropical cyclones in the post – monsoon season in the Bay of Bengal which moves from sea surface to land mass and create havoc for human being. Their intensity and pattern vary individually. After monitoring hourly the weather parameters of Sidr cyclone of 15th November 2007 which created severe atmospheric disturbance and weather variability in the Bangladesh plains and hills of Meghalaya plateau, it is found a noticeable depression of cool air masses in the starting phase of cyclone which created atmospheric disturbance for a shorter time. As a result, psychrometric index falls slightly with significantly higher thermal efficiency values in the starting phase of cyclone which invites speedy wind with heavy rains in its last phase. Two-peaked pattern of diurnal rainfall was observed in the Cherrapunji area and near surroundings which is the active path of cyclone on windward slopes. On the other hand, leeward areas of the plateau were experienced one-peaked pattern of diurnal rainfall with its less intensity.

Keywords: Atmospheric depressions, cyclonic storm, psychrometric index, rainfall intensity, saturation vapour pressure, weather variability pattern

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