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An Analysis of the Abnormal Track of  
Severe Tropical Storm Pabuk (0706)

(Abstract Only)

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## **An analysis of the abnormal track of Severe Tropical Storm Pabuk (0706)**

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### **Abstract**

Severe Tropical Storm Pabuk (0706), which affected Hong Kong from 8 to 11 August 2007, was a tropical cyclone with erratic track. In Hong Kong, the Observatory had to re-issue the tropical cyclone warning signals for Pabuk on 10 August after all signals had been cancelled on 9 August.

In order to understand the factors that brought about the erratic track of Pabuk, an analysis on the weather systems that had affected Pabuk was conducted using the meteorological information received at the Hong Kong Observatory from 5 to 11 August 2007. The analysis revealed that Pabuk had been affected by different weather systems during the period, including the mid-level subtropical ridge, another tropical cyclone Wutip (0707) and the mid-level mid-latitude westerly trough and mid to low level vorticies. The temporal and spatial changes in the intensity of these weather systems had brought about erratic changes in the steering flow that affected the movement of Pabuk. This paper also discusses the performance of the numerical weather prediction models in operational use at the Observatory in predicting the erratic track of Pabuk.