

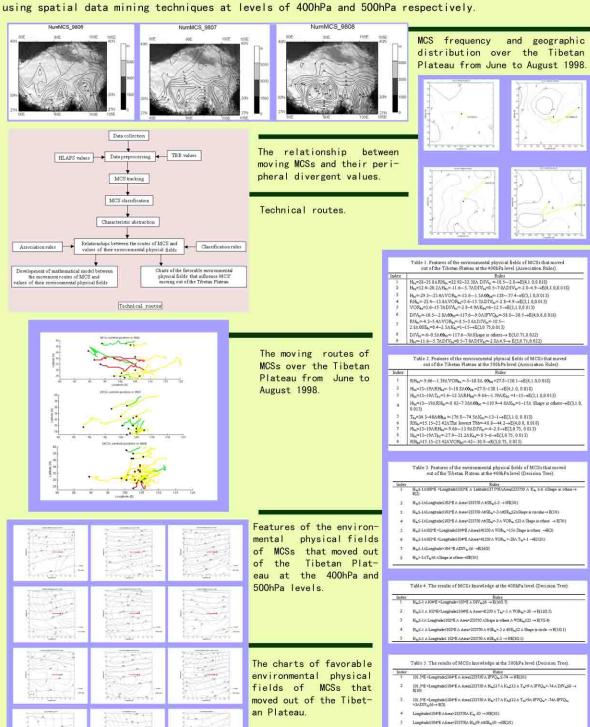
## Knowledge Discovery of Influencing the Movement of Mesoscale Convective System (MCS) Over the Tibetan Plateau

## 影響青藏高原上中尺度對流系統移動的知識發現

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## Project Summary:

In this project, Geostationary Meteorological Satellite (GMS) infrared black-body temperature (Tbb) data from June to August 1998 are used to automatically track the activity of Mesoscale Convective Systems (MCSs) over the Tibetan Plateau in China and to obtain the features of MCSs. Furthermore, High Resolution Limited Area Analysis and Forecasting System (HLAFS) values are used to study the relationships between the routes of MCS movement and the values of their environmental physical fields. Based on these, the charts of favorable environmental physical fields that influence MCS movement out of the Tibetan Plateau in different UTC are developed using spatial data mining techniques at levels of 400hPa and 500hPa respectively.



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