

## **SOUTH CHINA SEAS METEOROLOGY**

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### **Summary**

The South China Sea (SCS) is the linkage between the western Pacific Ocean and the Indian Ocean, Its weather/climate variations or anomalies have been regarded as an important factor to influence the social and economic condition. In this section, we will give some brief introductions and discussions on the dominant weather/climate systems over the SCS and surrounding regions, respectively, such as summer monsoon, winter monsoon and tropical cyclone.

### **1. Introduction**

It is well known that the South China Sea (SCS) is not only the vital linkage between the western Pacific Ocean and the Indian Ocean, but also the most important region of rapid economic development in the world. The weather/climate variations or anomalies have been regarded as an important factor to influence the social and economic condition. As a dominant weather/climate system, the monsoon plays an important role in creating the drought/flood disasters over the SCS and surrounding regions, particularly the summer monsoon activity. In the wintertime, winter monsoon is also

important, particularly in the continent region, where most of stronger convection and rainfall result from winter monsoon activities.

Tropical cyclone or typhoon is another important atmospheric system over the SCS and surrounding regions, where tropical cyclone and typhoon activity usually occurs during March-December, especially in July-November. Some serious disasters over the SCS and surrounding regions are caused by tropical cyclone and typhoon activities.

In this chapter in relation to meteorology over the South China Sea, we will introduce and discuss the summer monsoon, winter monsoon and tropical cyclone activities over the SCS, respectively.

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