

## 台灣海峽寒害事件初步監測與研究

### **Preliminary monitoring and study on severe cold shock events in the Taiwan Strait**

In this study, we plan to give a long-term monitoring on all severe cold shock events occurred in the Taiwan Strait (CSTS) in the past 30 years using continuous satellite-based infrared (IR) sea surface temperature (SST) images. Based on related analyses, the spatial and temporal characteristics of CSTS can be elucidated. On the other hand, based on synergy of background environmental factors derived from satellite techniques and model simulations outputs (e.g. temperature, salinity, three-dimensional currents, and wind forcing etc.), possible mechanism(s) and environment in favor of generations of those severe CSTS will be further investigated.