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Identification of public crisis from typhoon cataclysm and its threshold research

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With the rise of urbanization in China, the damage of natural disasters was getting worse. As one of the most important cataclysms, typhoon "Lekima", "Hato", "Mangkhut", "Rammasun" effect on coastal region in China significantly. In view of contingency management, typhoon cataclysm may lead to the public crisis. This crisis accompanies particularly heavy loss and profound effect, and often associated with regional emergency capability.

How to identify the crisis from a coming tropical cyclone? When to give an early warning to decision-making department depends on the regional emergency capability? These valuable questions are remaining uncertain.

For the purpose of answering these key questions, we research on disaster mechanism and case analysis of tropical cyclones. These researches help us to build the identification indicator of crisis and determine the threshold on society, economic, environment and Public sentiment, which are helpful for the emergency response and crisis management of tropical cyclone disaster.