

Distribution and propagation of storm waves on the shore platforms along Guangdong, China

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Guangdong is located in the southern of China with high incidence of typhoon storms several times one year and suffering serious destructions from the typhoon disaster, particularly the high energy storm waves destroying the coastal properties. It is significant to investigate the propagation of storm waves on the coastal areas for revealing the mechanism of wave energy releasing onto the coastal zones. This study focuses on the exploration of storm waves propagating and distributing on the shore platforms along Guangdong. The difference among the platforms supplies the crucial condition for comparison of propagation and distribution of storm waves on the different situations. A pre-warning system is explored based on the results of this study with the system having a key role on protecting the infrastructures and maintaining the properties in the coast of Guangdong and as well as a reference for the research of storm waves around the other areas.