

Abstract: Typhoon Recognition and Center Positioning based on Satellite Cloud Image

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Abstract

Because typhoon has different characteristics in different development stages, such as texture, shape, and area, we compute segmentation of typhoon cloud system by using two value image connected region labeling algorithm, based on recognition of typhoon cloud system, we propose a novel algorithm of locating typhoon's center by mathematical morphology which deals with cloud image typhoon. Experimental results show that the typhoon can be recognized and located effectively in a meteorological Satellite cloud image. Primary meteorological service application shows that the method has higher recognition rate and cloud center positioning accuracy.

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