

Typhoon Wave and Internal Wave Soliton Observed by ERS-1 in the Vicinity of Taiwan

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ABSTRACT

This study employs the remote sensing technique to observed a large scale ocean wave-field. The experiment has two types of data; 1) The SAR images. 2) The ERS-1 altimeter measurements. The study is divided into two parts. In the first part, we begin to receive and process the SAR images in June 1995, and try to establish a data base for studying on internal wave. In the second part it provides both ON-LINE and TAPE data. ON-LINE data can be retrieved from internet and are almost real time significant wave heights(delay one or two weeks). So far we have retrieved a small amount of data which is not enough for studying. The TAPE data we collect between July and September of the year 1992-94 can be used to compare with wave models. We found that the hindcasted typhoon wave heights by Bretschneider's Liang's model is quite close to the measured data.