

**STUDIES ON THE AUTOMATION OF NOAA-HRPT SATELLITE  
DATA RECEIVING SYSTEM AND PRELIMINARY  
APPLICATION TO OBSERVE THE DISTRIBUTIONS  
OF SEA SURFACE TEMPERATURE OFF  
NORTHEASTERN TAIWAN**

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**ABSTRACT**

This article briefly describes the NOAA-HRPT satellite remote sensing system installed in Taiwan Fisheries Research Institute (TFRI), the hardware configuration, the automation of data acquisition and image processing, the coverage of satellite passes, and the preliminary analysis of the SST distributions northeast of Taiwan.

From the 4 SST distribution imageries, it is found that the eddy structure prevails in all seasons. The SST fronts are stronger in April and December. The cold water masses, appeared frequently near northeastern coast of Taiwan, located in the cold side of the main SST fronts in April and October, and in the warm side in May and December. The waters near northeast coast is generally colder than either sides in most of the time.

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