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**XIV IWRA WORLD WATER CONGRESS**

**Porto de Galinhas, Pernambuco, Brazil 25-29 SEPTEMBER, 2011**

**Title: REVIEWING PAST NATURAL HAZARDS ASSOCIATED WITH  
WATER USING SATELLITE ANALYSED DAILY WIND AND  
SEA SURFACE TEMPERATURE DATA.**

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**WATER AND COASTAL MANAGER**

**Abstract**

Natural hazards such as Typhoons, Hurricanes and Cyclones can be verified by the use of daily climatic elements like sea surface temperature and wind direction and speed, Meteorological satellite data such as Sea Surface Temperatures(SST), Wind direction and speed are important parameters to determine the occurrence of Hydro meteorological hazards such as Storms, Tropical storms, Tyhoones, Cyclones, Hurricanes, Winterstorms, Tornadoes, Droughts, floods and ENSO events. This paper demonstrates a useful technique that can be used to verify the past natural events. The technique involves the use of FERRET software to plot analysed Sea Surface Temperatures, wind direction and speed. Results show that there is a strong consistency with the wind pattern as well as the SSTs depicting the existence of the phenomenon.

Ferret software plots are good in showing and proving the past occurrences of the Water related phenomenon as well as verifying the ENSO events. Details are presented in the text.

**Keywords:** Sea Surface Temperature (SST), Wind, FERRET, Hydrometeorological hazards, ENSO, Natural hazards.