

Storm Surges Congress, Hamburg, Germany  
13–17 September 2010  
SSC2010-6  
© Author(s) 2010



## **Sea Level Dynamics in Thai Waters using Altimetry Data : A Preliminary study**

S. Niemnil  
(sniemnil@hotmail.com)

Sea level Dynamics, variability and change is an index of global change especially the global warming. Global sea level is rising at 1.8 mm/yr (IPCC,2007), but few studies have been conducted regarding local sea level change and there is virtually no systematic study in the Gulf of Thailand and South China Sea. The objective of this research is to study sea level dynamics, variability and Change in Thai waters using satellite altimetry data. Analysis of satellite altimetry data yield the rising rate (0.40 to 2.38 mm/yr) in the Gulf of Thailand and South China Sea except Ko Lak show lowering rate (-1.41 mm/yr). The results indicate the need for further investigation of local factors before actual rate of sea level change in Thai water could be determined