

Storm Surges Congress, Hamburg, Germany
13–17 September 2010
SSC2010-184
© Author(s) 2010



Toward an integrated storm surge application: Research and operational requirements for Earth Observations

B. Lee

IOC of UNESCO, Ocean Observations and Services, France

The real impact on coastal areas is not from a sole reason: various factors - such as sea-level rise, increased storminess, inundation - combine and cause greater damage to low-lying coastal regions. In this context, coastal inundation forecasting and warning systems, including storm surges, depend on the crosscutting cooperation of different scientific disciplines and user communities.

The Earth Observation (EO) information from satellites has demonstrated high potential to enhanced coastal hazard monitoring, analysis, and forecasting. Recent efforts by the community were therefore made to identify the research and operational requirements for EO data to enhance various components of the storm surge and other coastal hazard warning/forecasting systems. Based on the results from the recent fora for the relevant themes, this presentation will address the requirements for data, models/technologies, and operational skills to apply EO information to the storm surge application.