



**11th International Conference on Hydrosience & Engineering
"Hydro-Engineering for Environmental Challenges"
September 28th - October 2nd 2014
Hamburg, Germany**

**Mini-Symposium
Impacts of Climate Change on Inland and Coastal Waterways and
Adaptation Strategies**

Climate Change will have strong impacts on inland and maritime waterways. Several impact mechanisms on waterways have already been discussed. E.g. the Environmental Commission of PIANC presented a review of climate change drivers, impacts and responses and mitigation for waterborne transport, ports and waterways (2008).

However there is still a need for worked-out examples addressing the impact of climate change on waterways. Therefore ICHE 2014 sets up a mini-symposium inviting general reviews and worked-out examples on the impacts of climate change causing:

- change in physical parameters in inland and maritime (or coastal resp.) waterways, e.g. water temperature, discharge, water levels, sediment load, ...
- change in chemical parameters in inland and maritime waterways, e.g. contaminant concentration in water and sediment, salinity, oxygen concentration, chlorophyll content, ...
- change in biological parameters in inland and maritime waterways, e.g. abundance of species, habitats, ...

In addition the mini-symposium invites general reviews on adaptation strategies and worked-out examples on adaptation measures (like river training, adaptation of waterways management, ...).

Interdisciplinary projects are encouraged to present their project layout and the links between the various scientific disciplines and climate change. The contributions to the mini-symposium may be based on field data and experiments or on numerical modeling as well. Ensemble techniques (like multi model approaches) and model intercomparisons are of special interest.

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