

The Knowledge Centre Manoeuvring in Shallow and Confined Water wishes you a happy Easter.

This is the second [newsletter](#) of the Knowledge Centre Manoeuvring in Shallow and Confined Water. The goals of this Knowledge Centre are to consolidate, extend and disseminate knowledge on the behaviour of ships in shallow and confined water. This is for example done by organising a three day [Conference on Ship to Ship Interaction](#) in Trondheim, Norway from 18 to 20 May 2011 as mentioned in our [previous newsletter](#).

After an extensive test program on bank effects carried out in 2006 we have decided to extend this huge database with new tests. In March 2010 this new test program initiated and before the end of this spring we will have carried out tests with five different ship models: an inland vessel, an estuary vessel, a KVLCC (Moeri II), a container carrier and a Wigley. All these models will be towed oblique along four different bank geometries at different distances and different water depths. [Read more](#)



Our model tests have especially been used for predicting the manoeuvring behaviour of a ship in both deep and shallow water. As these characteristics like advance, transfer and tactical diameter are for most ships increasing with decreasing under keel clearance the validation of the predicted characteristics using the developed mathematical models must be realised. Therefore FHR has ordered new developments: The implementation of a free-sailing device in the existing towing tank attached to the main carriage so that free-sailing tests can be executed. Nevertheless, due to the small width of the tank only some standard manoeuvres can be executed (acceleration, deceleration, crash stop, zigzag tests). [Read more](#)



Since the beginning of 2010 Flanders Hydraulics Research possesses an accurate measurement equipment that can be installed in a short time on almost all vessels. FHR aims to apply this new feature for validation of mathematical manoeuvring models present in their ship manoeuvring simulators. For this purpose two surveys already took place. [Read more](#)



*Knowledge Centre
Manoeuvring in Shallow and
Confined Water*

Berchemlei 115
2140 Antwerp
Belgium

T +32 (0) 3 224 60 35
E info@shallowwater.be

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