

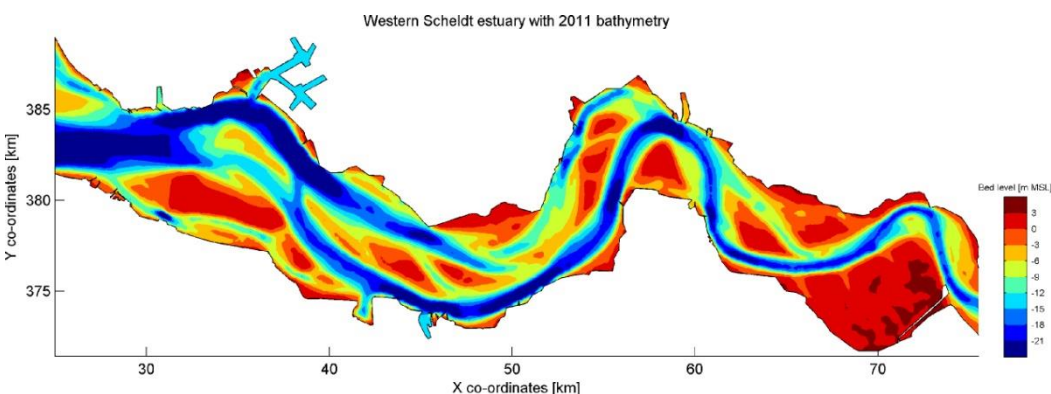
LONG-TERM VISION WESTERN SCHELDT ESTUARY

The consortium “Long-term vision Western Scheldt” consists of Deltares, IMDC, Arcadis and Svašek Hydraulics. The goal of this project is to give advice on how the Western Scheldt can be managed with the focus on the long-term goals of safety, accessibility and ecology.

Within this project Svašek Hydraulics has focused on long-term morphological computations of the Western Scheldt estuary. Advice is amongst others given on the impact of sand mining, influence of dumping strategies and measures how to reduce the tidal range.

The long-term morphological computations are carried out with the process-based FINEL2D model, which is developed by Svašek Hydraulics. The model is calibrated and validated on several long-term periods. The 1965-2002 period (38 year) showed good agreement between the calculated and observed morphological changes. A validation of the period 1860-1970 (110 year) also showed good

agreement between modelled bed changes and reality. The model shows good results with the historical morphological changes, which makes this model suitable for long-term simulations.



CLIENT

Dutch Ministry of public works and
Antwerp Port authority

LOCATION

Western Scheldt Estuary,
the Netherlands

DATE

2011 – 2013

SERVICES

FINEL2D modelling and advice



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