EXPANSION SLOEHAVENS

HYDRODYNAMIC AND MORPHOLOGIC MODELLING

The expansion and modification of the Sloehavens at Vlissingen-oost (part of Zeeland Seaports) may affect siltation in the port. Svašek Hydraulics was asked to investigate possible consequences for dredging activities and the environment. For this purpose, the planned harbour modifications were modelled to determine the effects on hydrodynamics and siltation.

Svašek has incorporated the proposed changes of the harbour shape and depth into its existing Western Scheldt estuary model. This procedure proved relatively simple given the unstructured grid used in FINEL2D.

from

earlier studies and showed a reasonable match with the actually observed distribution of deposited

harbour

followed

silt.

The model simulation has been able to simulate the vortex in the entrance, which transports much silt into the harbour. The siltation patterns that the model simulation were consistent with

The model results with the modified harbour configuration showed that minor effects on hydrodynamics and the distribution of deposited silt are to be expected.

CLIENT

Zeeland Seaports

LOCATION

Sloehavens (port), Vlissingen, the Netherlands

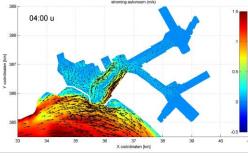
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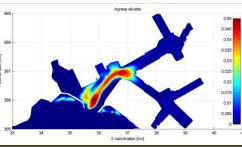
2009

SERVICES

Silt modelling











Svašek Hydraulics Kratonkade 23 3024 ES Rotterdam The Netherlands

Phone: +31 10 467 13 61 Internet: www.svasek.com E-mail: info@svasek.com