Wave propagation model MILDWave

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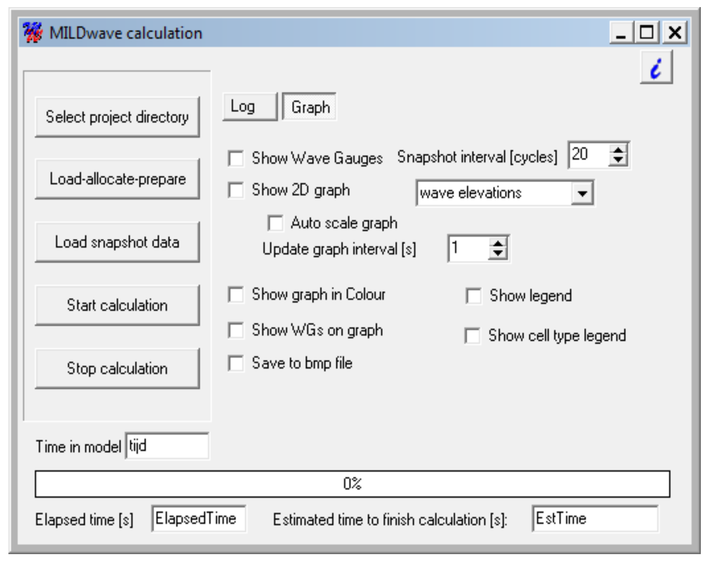
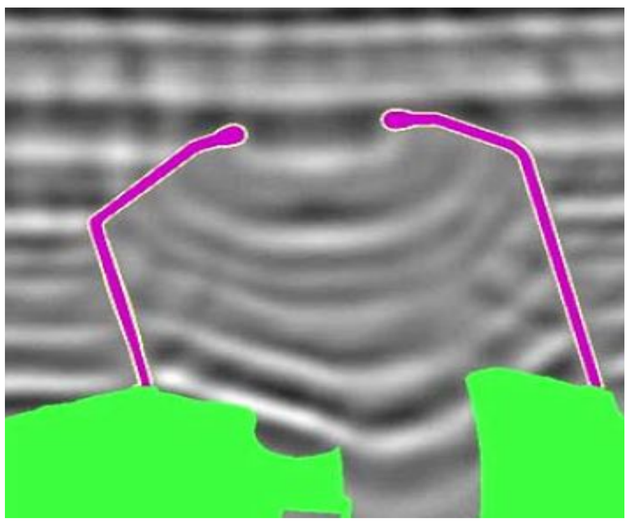
Background

MILDwave is a time domain wave propagation model developed at the Coastal Engineering Research Group for solving the mild-slope equations. The model simulates the transformation of linear waves including reflection, refraction, diffraction, wave breaking, etc. In the mean time, there is more than 15 years of experience at the Coastal Engineering research group.



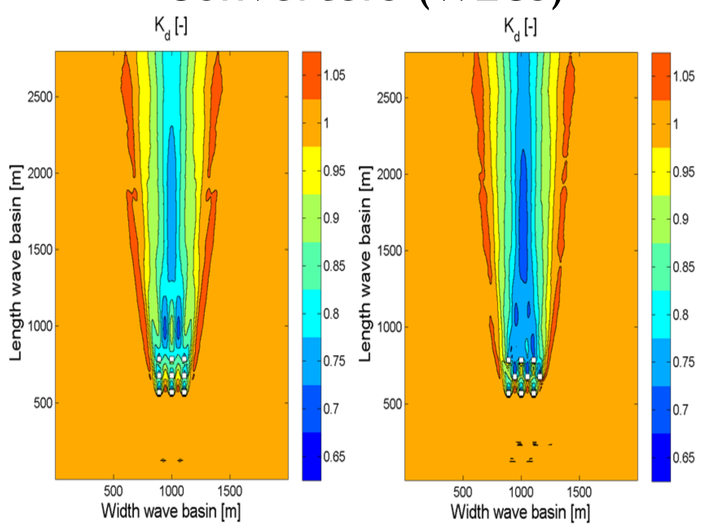
Applications

Wave penetration in harbours



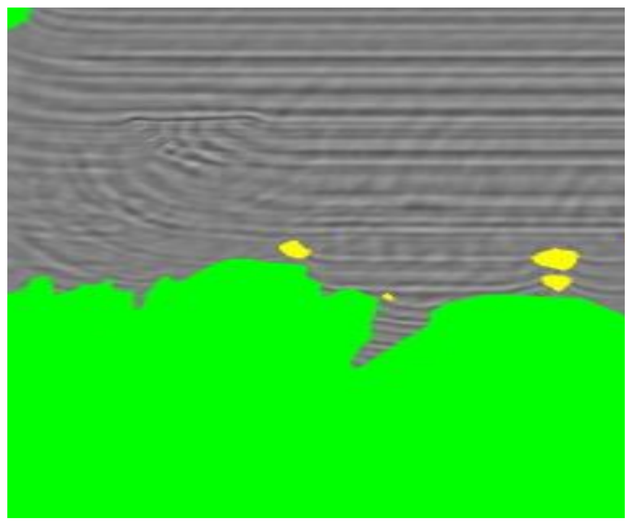
Waves propagating and penetrating into the harbour of Oostende

Wave Energy Converters (WECs)

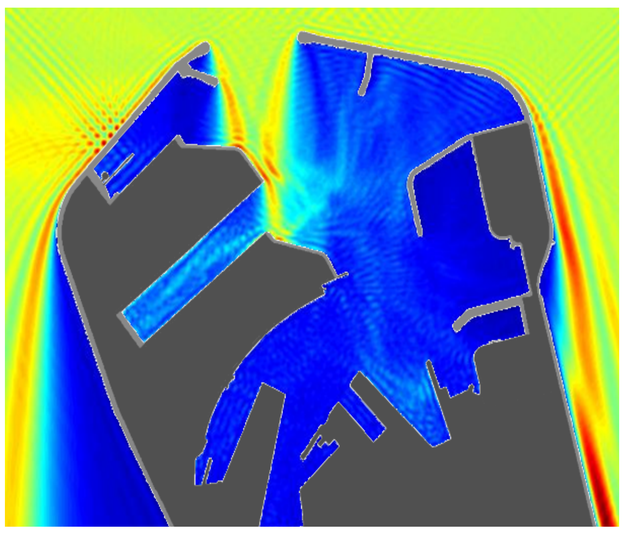


Wake effects behind two different array configurations of WECs

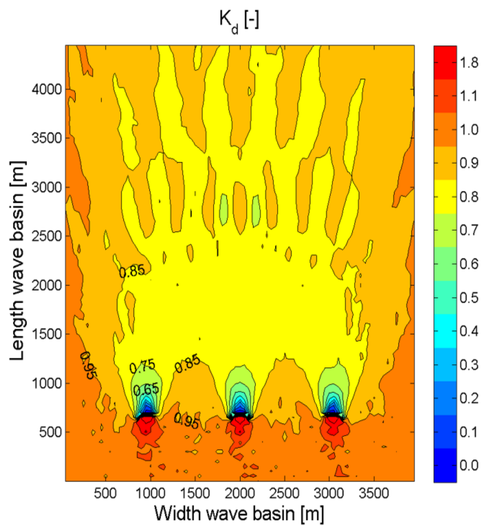
Wave transformation



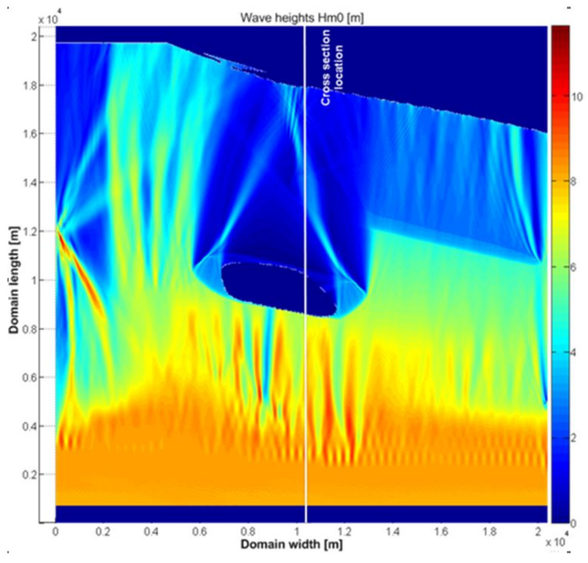
Wave conditions along the coastline and inside a fjord of Svaheia (Norway)



Disturbance coefficient Kd in the harbour of Zeebrugge



Wake effects behind an array of 3 Wave Dragons



Wave diffraction pattern behind an island in front of the coastline

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