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Cover photo: Fedderwardersiel, Germany

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5 Gaussian hump

5.1 Gaussian hump

Purpose

Computing reflection coefficients of a water level boundary.

Approach

Take a square domain of 12x12 [km] and a rectangular domain of 12x6 [km]. Both models has their origin in the middle of their domain and they will coincide. Place some observation points on the boundary of the smaller domain, and also observation points at the same (x, y) location on the larger domain. A mismatch of the signal is a measure for the reflection of a wave.

Model description

See for a model layout [Figure 5.1](#).

Initial water level

Results

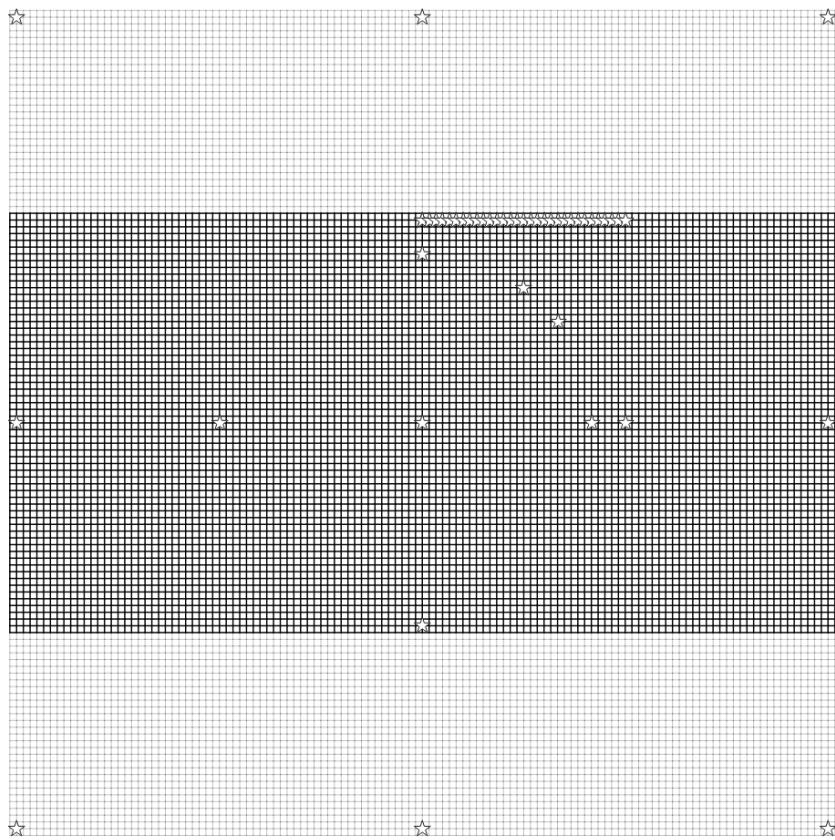


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