

Modeling Sea Level Rise Impact on Estuarine Morphodynamics

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Propositions

Attached to the thesis

Modeling Sea Level Rise Impact on Estuarine Morphodynamics

by

Hesham Mohamed Samy Elmilady

1. Morphodynamics in confined tidal basins lags behind sea level rise, causing a decrease in intertidal area.
(this thesis)
2. Tidal flows are the main driver of channel-shoal system morphodynamics, even under sea level rise scenarios.
(this thesis)
3. Small, locally wind-generated waves impact the morphology of a shoal, but not the basin-scale morphodynamic development. (this thesis)
4. We need complex, process-based models to prove that simpler models work. (this thesis)
5. Low-emission countries face disproportionate climate change consequences.

6. Printing PhD theses does not efficiently benefit science communication.
7. Science can explore human impact on the planet, but the economy will save it.
8. PhD research is like a trip on a motorboat; when fuel runs out, friends will help to find the reserve tank.
9. Short-term political interests are at odds with long-term climate change adaptation plans.
10. Propositions are like models; the deepest insights emerge from the simplest formulations.

These propositions are regarded as opposable and defensible, and have been approved as such by the promotor Prof.dr.ir. J.A. Roelvink and copromotor Dr.ir. M. van der Wegen.