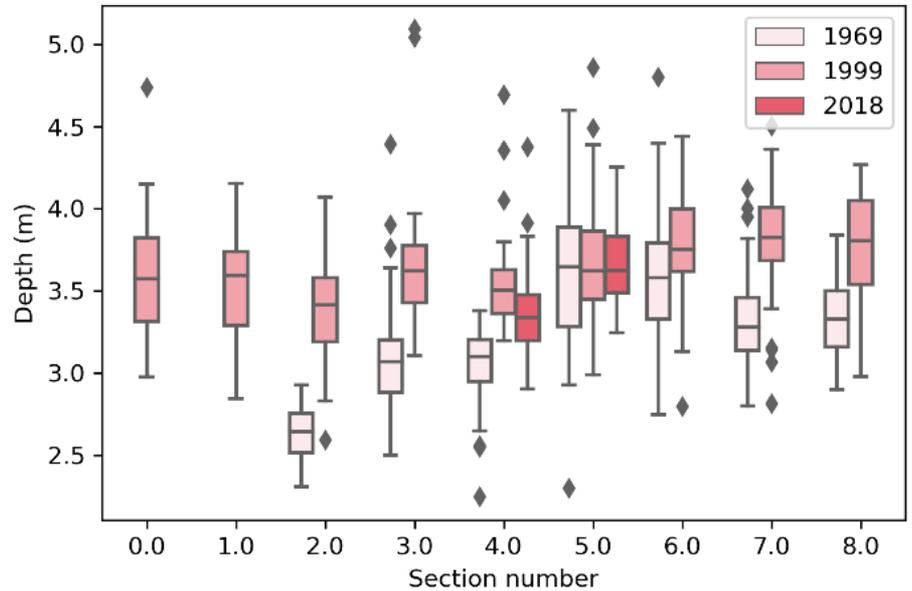
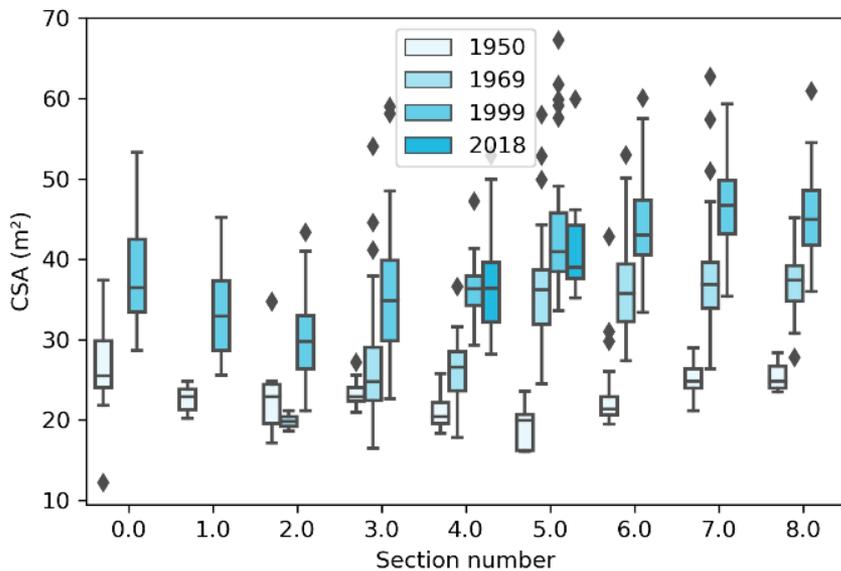
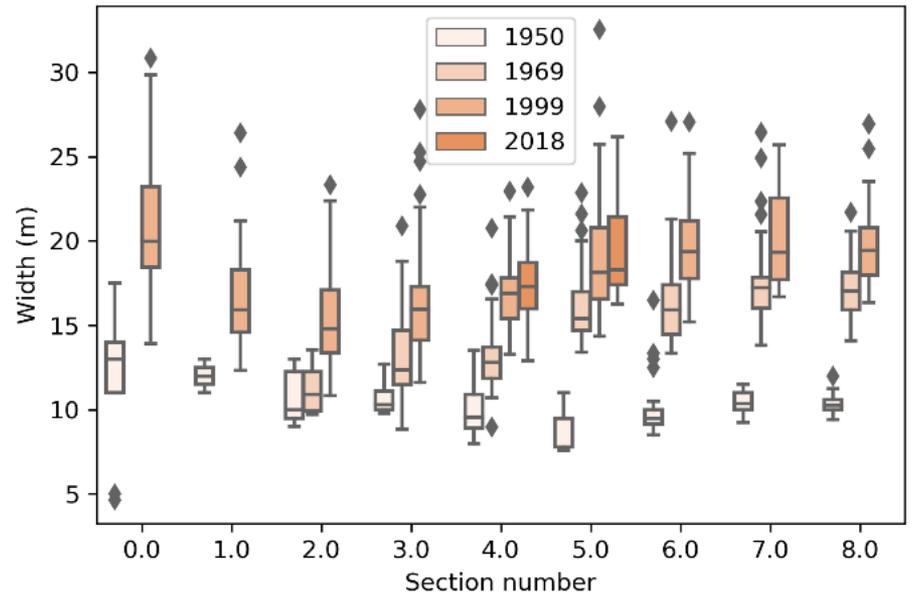
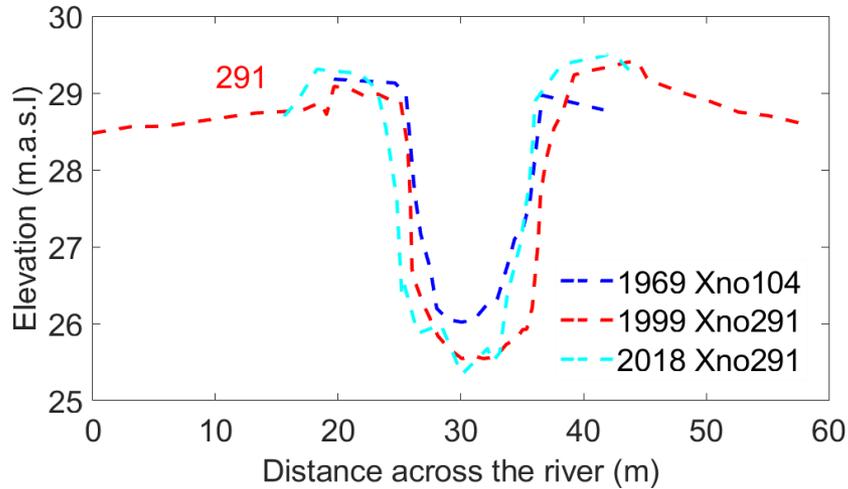


Numerical modelling of hydro-morphodynamic channel processes at decadal timescales using optimization methods: an application to the Dijle River, Belgium

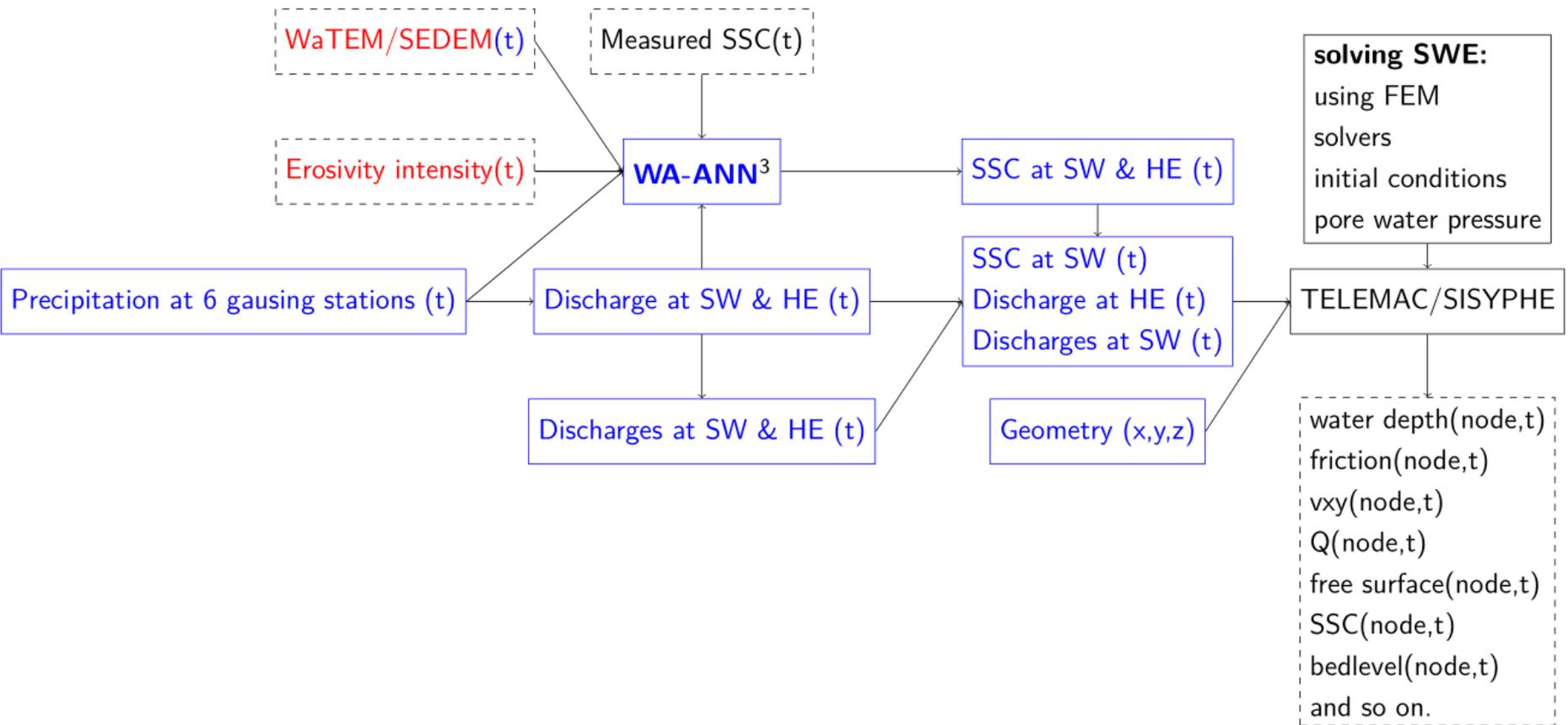
Sardar Ateeq-Ur-Rehman, Nils Broothaerts, Ward Swinnen, Gert Verstraeten



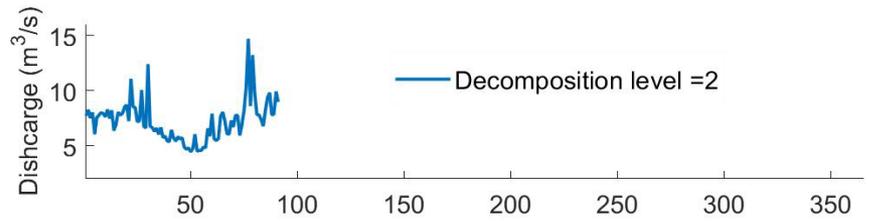
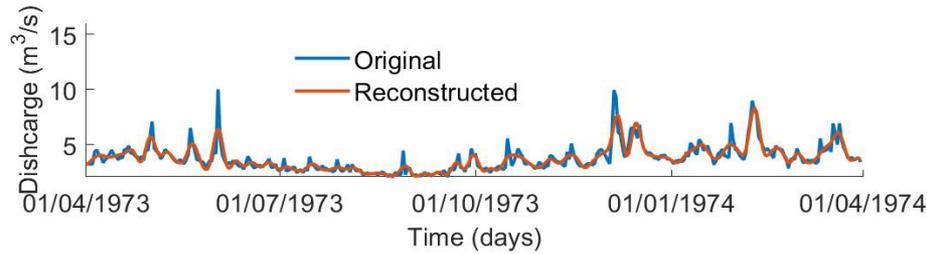
Morphological changes in the river



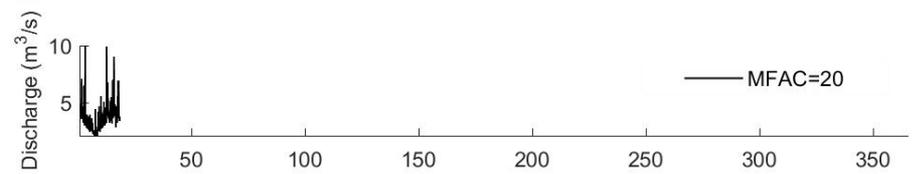
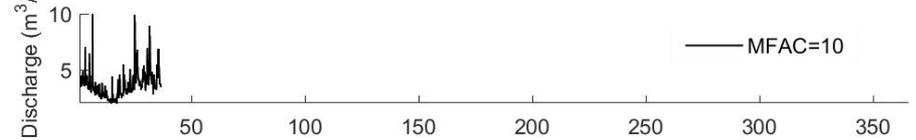
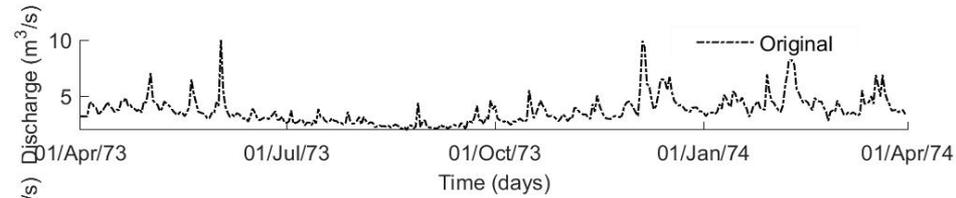
Modelling concept



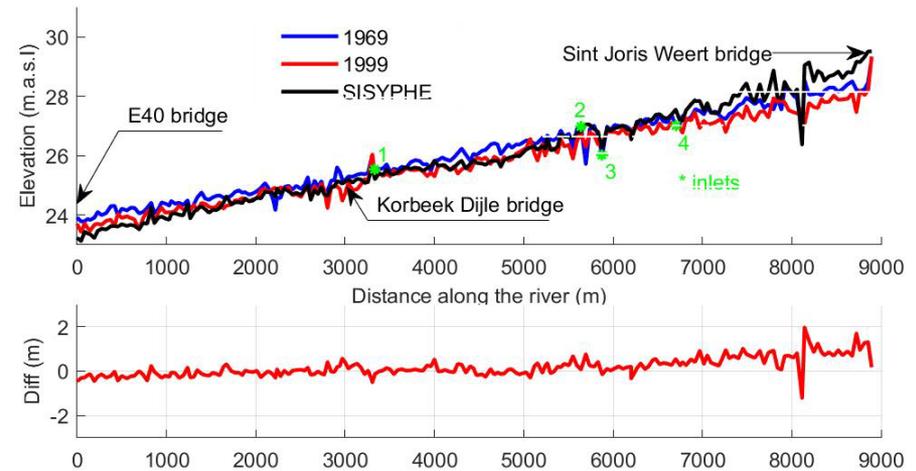
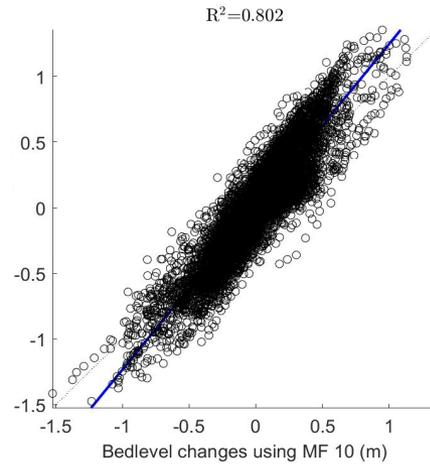
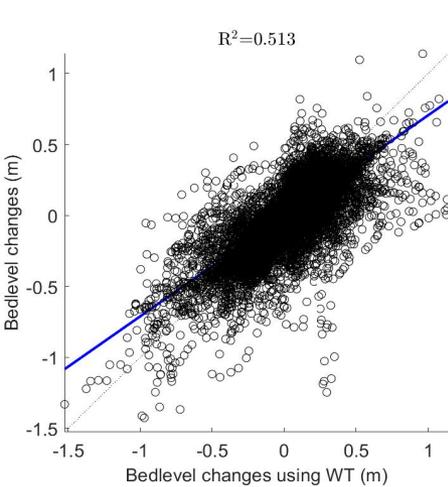
Simulation time optimization



BCs using coif5 wavelet transform- length of $n/2^{\text{level}}$

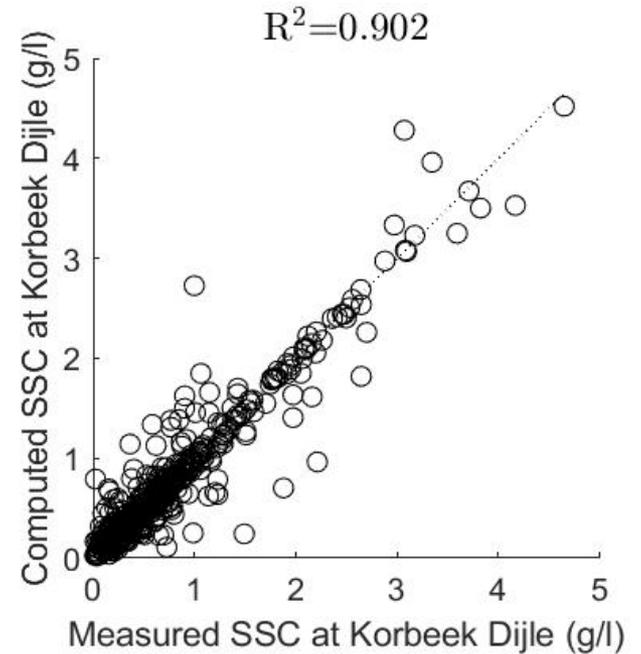
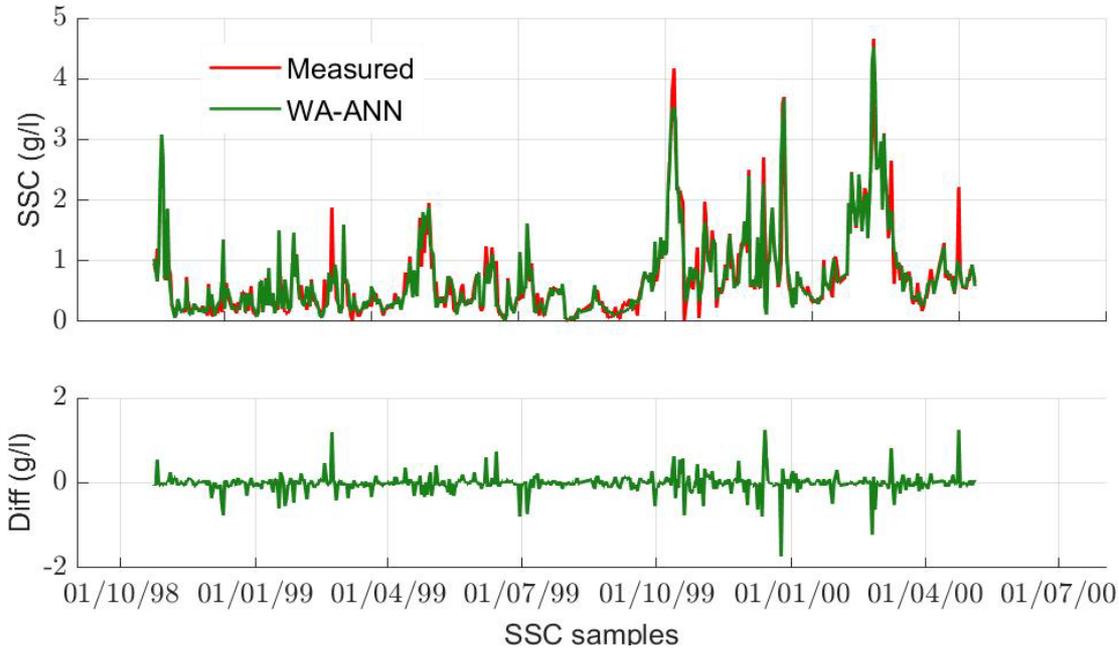


BCs using morphological factor

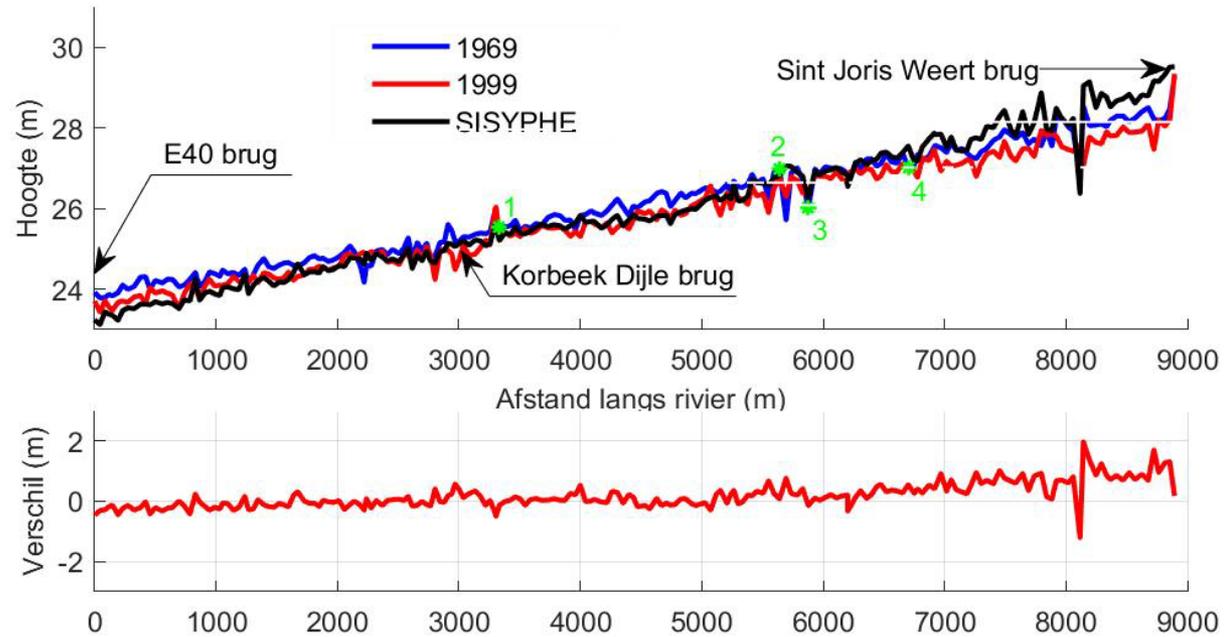
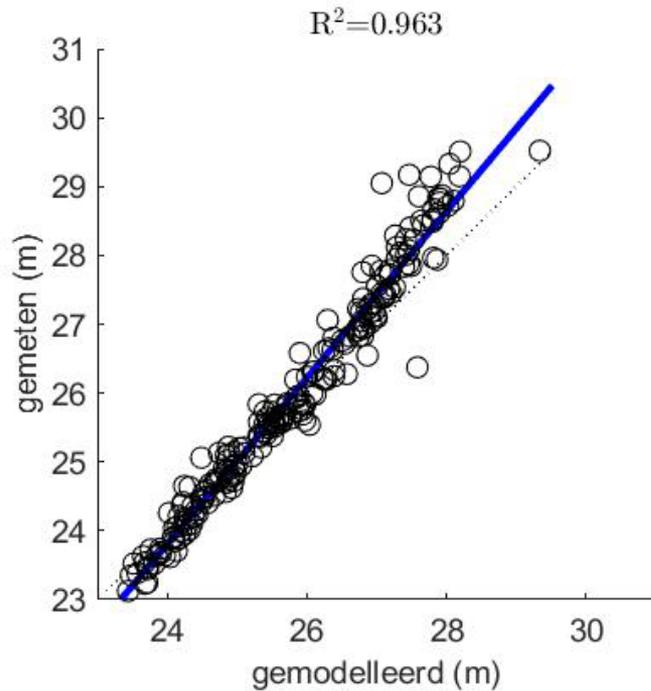


TELEMAR results using morphological factor BCs

Missing sediment load estimation



Modelling results



Questions?

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