

Parameter	Value	Unit	Motivation
Time span model run	100	year	sufficient time to have changes on estuary scale
Hydrodynamic time step	0.2	min	to fulfill Courant number criteria
Morphological spin up time	24	h	two tidal cycles
Drying flooding depth	0.08	m	balance between capturing morphodynamics and time efficiency
Morphological acceleration factor	30	–	low value to allow vegetation processes
Active bed layer thickness	0.1	m	Braat et al. (2017)
Transverse bed slope parameter $\alpha$	0.2	–	Braat et al. (2017)
Transverse bed slope parameter $\beta$	0.5	–	Braat et al. (2017)
Vegetation time step	21 900	min	to capture settling, growth and mortality