

Modified parameters	Unit	This study	Reference range
Biological dynamics			
Maximum specific photosynthetic rate	s^{-1}	5.58×10^{-5}	$0.107 - 18.2 \times 10^{-5}$ ^(a)
Photosynthetic efficiency	$m^2 s (\mu mol \text{ photons } s)^{-1}$	4.11×10^{-7}	$1.67 - 6.94 \times 10^{-7}$ (a)
Phytoplankton mortality rate constant	s^{-1}	37×10^{-8}	$23 - 350 \times 10^{-8}$ (a)
Phytoplankton growth constant	-	0.3	$0.1 - 0.5$ ^(a)
Aerobic degradation rate constant	$\mu mol C L^{-1} s^{-1}$	1.44×10^{-4}	$0.8 - 9.26 \times 10^{-4}$ (a)
Denitrification rate constant	$\mu mol C L^{-1} s^{-1}$	5.00×10^{-4}	$0.26 - 522 \times 10^{-4}$ (a)
Nitrification rate constant	$\mu mol N L^{-1} s^{-1}$	4.62×10^{-4}	$0.106 - 21.7 \times 10^{-4}$ (a)
Particle dynamics			
Critical shear stress for erosion and deposition : km 0 – km 140; km 140 – estuary mouth	Newton m ⁻²	0.25; 0.6	$0.17 - 0.6$ ^(b)
Erosion coefficient : from km 0 – km 140 ; km 140 – estuary mouth	kgTSS m ⁻² s ⁻¹	6.0×10^{-6} 1.0×10^{-6}	$1.0 - 5.0 \times 10^{-6}$ (b)
Settling velocity	m s ⁻¹	1.0×10^{-4}	$0.1 - 10 \times 10^{-4}$ (b, c)
(a): Volta et al., (2016) ; (b): Letrung et al., (2016) ; (c): Le et al., (2020)			