

Parameter	Description	Value	Unit
A_D	Model domain surface area	152 847	km ²
A_B	Black Sea buffer zone area	22 693	km ²
A_{MAR}	Sea of Marmara surface area	10 707	km ²
A_{BOS}	Bosphorus strait surface area	60.7	km ²
A_{DAR}	Dardanelles strait surface area	301.3	km ²
R_B	Black Sea runoff	Table 1	
S_0	Sea surface salinity		psu
S^*	Salinity relaxed in the Black Sea buffer zone	Table 1	psu
γ	Salinity relaxation coefficient	5.79×10^{-6}	m s ⁻¹
W_{corr}	Water flux correction		m s ⁻¹
S_{corr}	Salinity flux correction		psu m s ⁻¹
A_{h0}	Horizontal eddy viscosity reference value	2.7×10^{13}	m ⁴ s ⁻¹
K_{h0}	Horizontal eddy diffusivity reference value	2.0×10^3	m ² s ⁻¹
A_{v0}	Vertical background viscosity	1.0×10^{-5}	m ² s ⁻¹
K_{v0}	Vertical background diffusivity	1.0×10^{-6}	m ² s ⁻¹