

Symbol	Meaning	Dimension	Symbol	Meaning	Dimension
a	Cross-sectional convergence length	(L)	Q	Freshwater discharge	(L ³ T ⁻¹)
A	Cross-sectional area	(L ²)	s	Length scale of the salinity variation	(L)
A_f	Cross-sectional area of the river	(L ²)	S	Salinity	(ML ⁻³)
A_S	Storage cross-sectional area	(L ²)	S_f	Freshwater salinity	(ML ⁻³)
B	Width	(L)	t	Time	(T)
d	Length scale of the dispersion variation	(L)	x	Distance	(L)
D	Dispersion coefficient	(L ² T ⁻¹)	z	Water level	(L)
g	Gravity acceleration	(L T ⁻²)	α_1	Constant	(-)
h	Water depth	(L)	ε	Factor	(-)
K	Van der Burgh's coefficient	(-)	ρ	Density of water	(ML ⁻³)
P	Power per unit length	(ML T ⁻³)	ρ_s	Density of seawater	(ML ⁻³)