

x	<i>along-estuary (positive seaward)</i>
y	<i>across-estuary (positive to the right while looking into the estuary)</i>
z	<i>vertical coordinate (positive upward)</i>
u	<i>along-estuary component of velocity</i>
v	<i>cross-estuary component of velocity</i>
w	<i>vertical component of velocity (positive upwards)</i>
U	<i>vertically integrated east component of velocity</i>
V	<i>vertically integrated north component of velocity</i>
W	<i>wind velocity</i>
A_z	<i>vertical eddy viscosity</i>
A_x	<i>horizontal eddy viscosity (along-estuary)</i>
A_y	<i>horizontal eddy viscosity (cross-estuary)</i>
K_z	<i>vertical eddy diffusivity</i>
K_x	<i>horizontal eddy diffusivity (along-estuary)</i>
K_y	<i>horizontal eddy diffusivity (cross-estuary)</i>
f	<i>Coriolis parameter, planetary vorticity</i>
ρ	<i>density</i>
ρ_0	<i>reference density</i>
ρ_a	<i>air density</i>
λ	<i>wavelength</i>
ω	<i>frequency</i>
α	<i>thermal expansion</i>
β	<i>haline contraction</i>
ε	<i>nonlinear parameter (e.g. a/H)</i>
ζ	<i>relative vorticity</i>
η	<i>free surface</i>
θ	<i>latitude</i>
κ	<i>wave number</i>
σ_t	<i>density anomaly</i>
τ	<i>stress</i>
τ_b	<i>bottom stress</i>
τ_s	<i>surface stress</i>
Ω	<i>rate of rotation of the Earth ($2\pi/24$ hrs)</i>
C_d	<i>surface (wind) drag</i>
C_b	<i>bottom drag</i>
c	<i>long wave speed</i>
c_i	<i>long internal wave speed</i>
H	<i>basin depth (constant)</i>
h	<i>variable depth</i>
B	<i>basin width</i>
L	<i>basin length</i>
H_{max}	<i>max depth</i>
H_{min}	<i>min depth</i>
w_s	<i>particle fall velocity</i>
R	<i>river discharge</i>
Λ_i	<i>Internal (Rossby) radius (of deformation)</i>

Ri	<i>Richardson number</i>
Λ_o	<i>External Rossby radius</i>
R_c	<i>Radius of curvature</i>
Ro	<i>Rossby number</i>
Ek_v	<i>Verical Ekman number</i>
Ek_h	<i>Horizontal Ekman number</i>
P	<i>Rouse number</i>
S	<i>Salinity</i>
T	<i>Temperature</i>
t	<i>time</i>
p	<i>pressure</i>
P_a	<i>atmospheric pressure</i>
r	<i>linearized bottom friction coefficient</i>
g	<i>gravity's acceleration</i>
g'	<i>reduced gravity</i>
N	<i>buoyancy frequency</i>
a	<i>amplitude of an oscillatory motion</i>
Ra	<i>Rayleigh number</i>
u_0	<i>tidal current amplitude</i>
Q	<i>heat flux</i>
u^*	<i>friction velocity</i>
Pe	<i>Peclet number</i>
Δ_h	<i>tidal range</i>
chl	<i>chlorophyll concentration</i>
SSC	<i>suspended sediment concentration</i>
SPM	<i>suspended particulate matter concentration</i>
SC	<i>specific conductance</i>
$anything\text{-prime}$	<i>turbulence fluctuation</i>
$subindex\ 't'$	<i>tidal fluctuation</i>
$\langle anything \rangle$	<i>tidal average of anything</i>