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NOMENCLATURE

Variables

A	albedo: the ratio of reflected radiation and total received radiation of a surface $(-)$
a	correction parameter for wind velocity (m/s)
α	diffusion coefficient (m^2/s)
b	correction parameter for wind velocity $(-)$
C	degree of cloudiness $(-)$
c_D	drag coefficient $(-)$
c_p	the specific thermal capacity $(J/(kg * K))$
e	vapour pressure (Pa)
E_{lat}	evaporation rate (m/s)
ε	emissivity $(-)$
φ	heat flux (W/m^2)
k^*	a parameter of *Ekman* velocity profile$(-)$
k_e	extiction coefficient $(1/m)$
κ	*Von Karman* constant $(-)$
K_H	eddy diffusion coefficient (m^2/s)
L_{lat}	the vaporisation enthalpy of water (J/kg)
λ	thermal conductivity $(W/(m * K))$
P	Prandtl-number $(-)$
Ri	Richardson number
ρ	density (kg/m^3)
σ_s	Stephan Boltzmann constant $(W/(K^4 * m^2))$
T	absolute temperature (K)
t	time (s)
ϑ	temperature $°C$
u	wind velocity (m/s)
u^*	corrected wind velocity (m/s)
$\overset{*}{w}$	shear velocity (m/s)
z	depth (m)

Supscripts

0	at neutral conditions
amb	ambient air
lat	latent
lwi	ingoing long-wave radiation
lwo	outgoing long-wave radiation
pen	penetration into water
sat	saturation
sen	sensible
sun	solar (short-wave) radiation
sur	at surface
wat	water