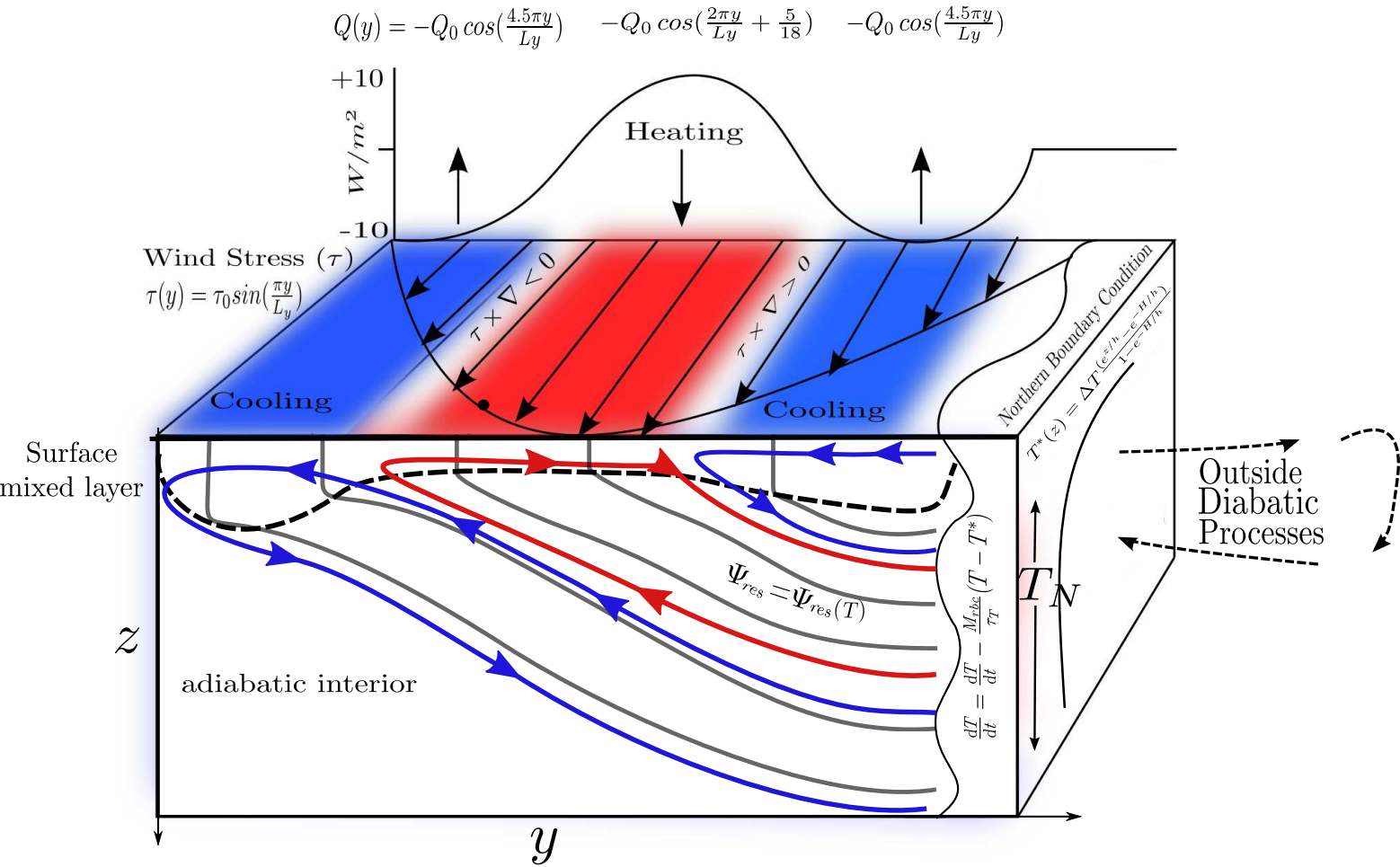
$Q(y) = -Q_0\, cos(\frac{4.5\pi y}{Ly}) \quad -Q_0\, cos(\frac{2\pi y}{Ly} + \frac{5}{18}) \quad -Q_0\, cos(\frac{4.5\pi y}{Ly})$
+10
W/m^2
-10
Heating
Wind Stress (τ)
$\tau(y) = \tau_0 sin(\frac{\pi y}{L_y})$
$\tau \times \nabla < 0$
$\tau \times \nabla > 0$
Cooling
Cooling
Northern Boundary Condition
$T^*(z) = \Delta T \frac{(e^{z/h} - e^{-H/h})}{1 - e^{-H/h}}$
Surface mixed layer
Outside Diabatic Processes
$\Psi_{res} = \Psi_{res}(T)$
$\frac{dT}{dt} = \frac{dT}{dt} - \frac{M_{rbc}}{\tau_T}(T - T^*)$
T_N
z
adiabatic interior
y