

Daytime

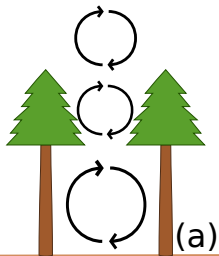
Nighttime

Coupled

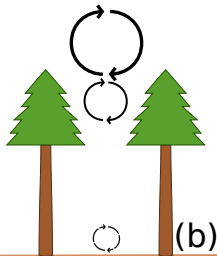
Decoupled

Coupled

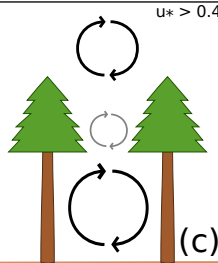
Decoupled



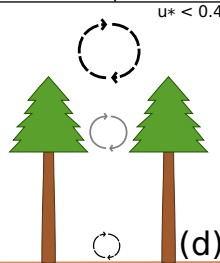
(a)



(b)



(c)



(d)

Atmosphere

Canopy

Subcanopy

The wind shear is strong enough to penetrate the overstory and fully mix the entire canopy.

The top of the canopy is coupled; the subcanopy is mostly stably stratified. Convection can take place above the forest floor.

Exchange between the canopy and atmosphere is dominated by wind shear. Internal convection can take place within the overstory.

Wind shear is not strong enough to enter the canopy. Local convection can take place in the overstory and above the forest floor.