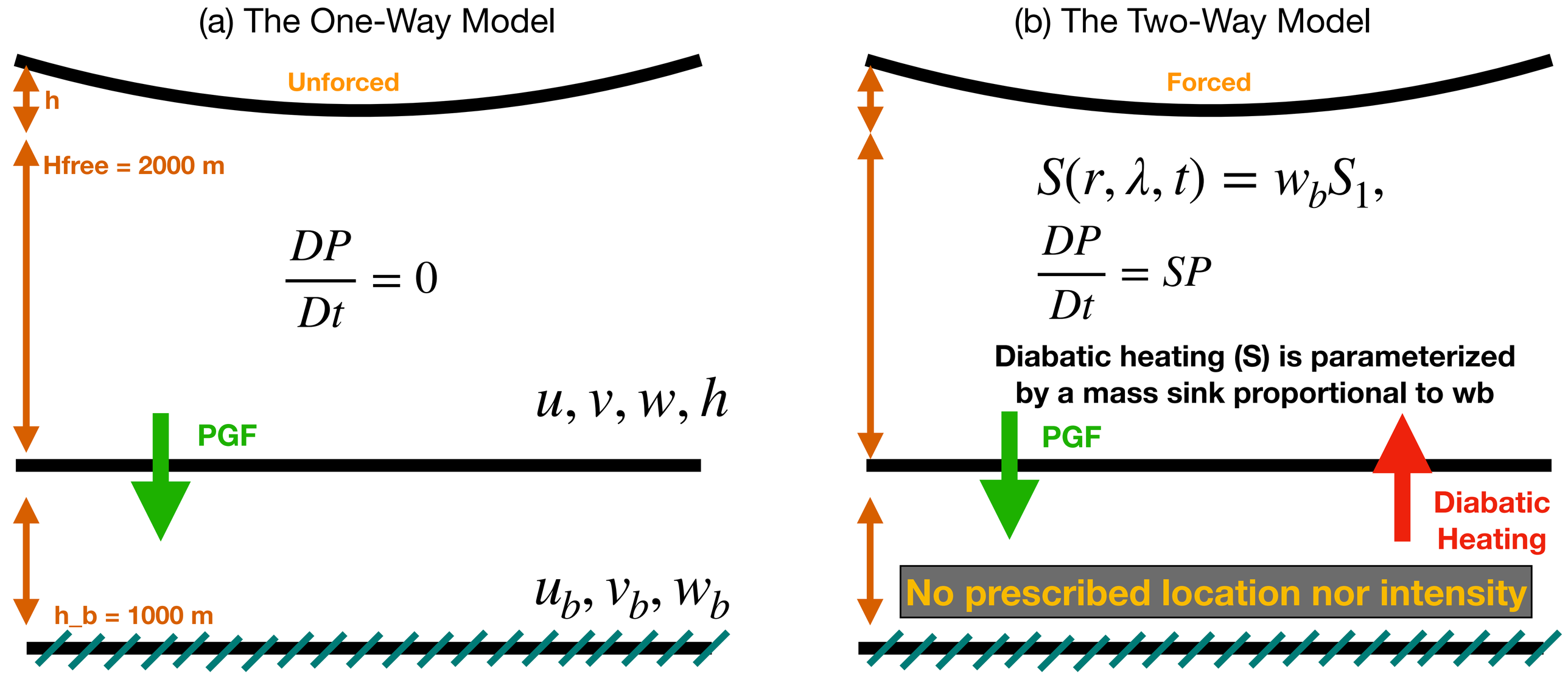
(a) The One-Way Model
Unforced
h
Hfree = 2000 m
$\frac{DP}{Dt} = 0$
u, v, w, h
PGF
u_b, v_b, w_b
h_b = 1000 m
(b) The Two-Way Model
Forced
$S(r, \lambda, t) = w_b S_1,$
$\frac{DP}{Dt} = SP$
Diabatic heating (S) is parameterized
by a mass sink proportional to wb
PGF
Diabatic
Heating
No prescribed location nor intensity