What is the Priestley-Taylor Wet-Surface Evaporation Parameter? 
Testing Four Hypotheses

Richard D. Crago, Joszef Szilagyi, Russell J. Qualls

S1. **Supplemental Information**

A list of all the sites, with FLUXNET site name, latitude, longitude, measurement height, canopy height, and IGBP land cover class is included in Table S1. Sites comprising six IGBP classes (CRO, GRA, ENF, OSH, DBF, and WET) were included. All information provided in Table S1 came from Wang et al. (2020).

Table S1. Sites and site information

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**S2. Formulae from Andreas et al. (2013)**

The formulae cited in section 2.1 coming from Andreas et al. (2013) are all functions of temperature (in degrees Celsius).

Saturation vapor pressure \( e^* (\text{Pa}) \) is given by:

\[
e^*(T) = 6.1121 \times 10^{-3} \exp\left[\frac{17.5027T}{(240.97+T)}\right], \quad \text{when } T>0, \text{ and}
\]

\[
e^*(T) = 6.1115 \times 10^{-3} \exp\left[\frac{22.4527T}{(272.55+T)}\right], \quad \text{when } T\leq0.
\]
The slope of the saturate vapor pressure curve $\Delta$ (Pa/K) is given by:

$$
\Delta(T) = e^*(T) \left[17.502 \times 240.97/(240.97+T)\right]^2, \quad \text{where } T > 0, \text{ and }
$$

$$
\Delta(T) = e^*(T)\left[22.452 \times 272.55/(272.55+T)\right]^2, \quad \text{where } T \leq 0.
$$

The latent heat of evaporation $l_v$ (J/kg) is given by:

$$
l_v = (25 - 0.02274T) \times 100000, \quad \text{when } T > 0 \text{ and }
$$

$$
l_v = (28.34 - 0.00149T) \times 100000, \quad \text{when } T \leq 0.
$$