Bowen Ratio

The Bowen Ratio is defined as the ratio between the sensible heat Q_h and the latent heat Q_e:

$$R= Q_h/Q_e=0.00061*p* \frac {T_s-T_a} {e_s-e_a} $$

where T_s is the temperature of the water surface and T_a is the temperature of the atmosphere in degrees Celsius. while e_s are the vapour pressure of the water surface and e_a of the atmosphere, p is the atmospheric pressure in mb (millibar). The Bowen ratio is used among other applications for the energy budet of open lake evaporation.

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