**Line 199:** Temperature corrected for humidity (tc) in Kelvins based on formulation from Kaimal and Gaynor (1991) Equation 3.

is the temperature corrected for water vapour (*K*):

is the water vapour density (*Kg m-3*); R is the universal gas constant (8.3143x10-3 *kPa m3 K-1 mol-1*); is the ambient pressure (*kPa*); is molecular weight of water vapour; is the sonic temperature in air (*K*)

**Lines 419-423:**

From Stull (1989) Line 423 and 422

Stull, 1989. R.B. Stull (Ed.), An Introduction to Boundary Layer Meteorology, Kluwer, Dordrecht, Netherland (1989).

From Webb (1980) line 421

Line 423: is the specific heat of air (*J Kg-1 K-1*); is the gas constant for water vapour (*kPa m3 K-1 g-1*);

Line 422: is the latent heat of vaporization (*J Kg-1*);

Line 419: is the density of dry air (*Kg m-3*); is the ratio of the molecular weight of dry air to water vapour; ); is the gas constant for dry air (*kPa m3 K-1 g-1*);

Line 420: is the air density (*Kg m-3*);

Line 421: Sigma\_wpl=

**Line 428:**

**Line 430: radians to degrees**

**Line 431:**

**Line 434: wind direction adjusted to sonic azimuth**

+sonic\_azi) MOD 360

**MOD 360 see** [**https://www.mathworks.com/help/matlab/ref/mod.html**](https://www.mathworks.com/help/matlab/ref/mod.html)

**It is used to results falls in between 0-360º**