## Station Pressure

From the user, a station elevation ( $h$ ) and an altimeter setting $\left(P_{a}\right)$ are given. Before calculating the station pressure, the station elevation must be converted to meters ( $m$ ) using the formula below:
$h_{m}=0.3048 \times h_{f t}$
Also, the altimeter setting must be converted to inches of mercury (inHg)
For information on how to convert pressure, use the link below:
http://www.srh.noaa.gov/elp/wxcalc/formulas/pressureConverstion.pdf
Then, the station pressure $\left(P_{s t n}\right)$ can be calculated using the formula below:
$P_{s t n}=P_{a} \times\left(\frac{\left(288-0.0065 \times h_{m}\right)}{288}\right)^{5.2561}$
Then, the station pressure can be converted to other pressure units, using the link above.

