## 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:

$$
h_{m}=3.2808 \times h_{f t}
$$

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.wrh.noaa.gov/Saltlake/projects/wxcalc/formulas/pressureConversion.pdf
Then, the station pressure ( $P_{s t n}$ ) 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.

