Station Pressure

From the user, a station elevation \((h)\) and an altimeter setting \((P_a)\) are given. Before calculation the station pressure, the station elevation must be converted to meters \((m)\) using the formula below:

\[
h_m = 0.3048 \times h_{ft}
\]

Also, the altimeter setting must be converted to inches of mercury \((inHg)\)

For information on how to convert pressure, use the link below:

Pressure Conversion

Then, the station pressure \((P_{stn})\) can be calculated using the formula below:

\[
P_{stn} = P_a \times \left( \frac{288 - 0.0065 \times h_m}{288} \right)^{5.2561}
\]

Then, the station pressure can be converted to other pressure units, using the link above.