## Pressure Altitude

From the user, a station pressure $\left(p_{s t a}\right)$ is given. In order to calculate pressure altitude, the units for station pressure must be converted to millibars $(\mathrm{mb})$ or hectopascals ( hPa ). For information on how to convert to millibars, see the link below:
http://www.wrh.noaa.gov/Saltlake/projects/wxcalc/formulas/pressureConversion.pdf
Then, pressure altitude $\left(h_{\text {at }}\right)$ can be calculated using the equation below:

$$
h_{\text {alt }}=\left(1-\left(\frac{p_{\text {sta }}}{1013.25}\right)^{0.190284}\right) \times 145366.45
$$

The answer will be units of feet. To convert the answer to units of meters see the equation below:

$$
h_{m}=0.3048 \times h_{a l t}
$$

