

APPLIED TROPOSPHERE MODEL

Standard Model

There are several provided models. The default model (**standard model**) is popular and used widely in the industry. This model uses a modified Chow algorithm with a guard angle to prevent low angle divergence.

$$\tau = \frac{\text{Numerator}}{(\sin\theta_e + 0.000143/(\tan\theta_e + 0.0455))}$$

If ($H < 1000$) the **Numerator** becomes:

$$2.5119 - 0.3248H/1000.0 - 0.022395 H^2$$

If ($H < 9000$) the **Numerator** becomes:

$$-0.1191 + 2.2838 * \exp^{(0.1226 * (1.0 - H))}$$

If ($H > 9000$) the **Numerator** becomes:

$$0.73736 * \exp^{(0.1424 * (9.0 - h))}$$

Descriptions of the other models are contained in these links:

[..\..\..\Tapestry\Documentation\Manuals\TropomodelHopField.pdf](#)

[..\..\..\Tapestry\Documentation\Manuals\Tropomodel229C.pdf](#)