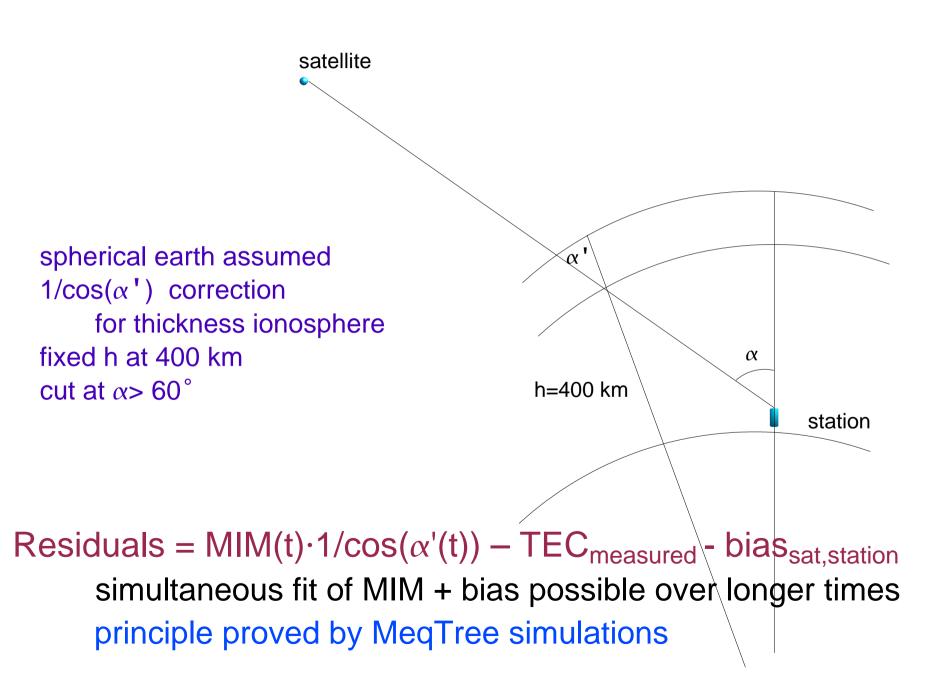


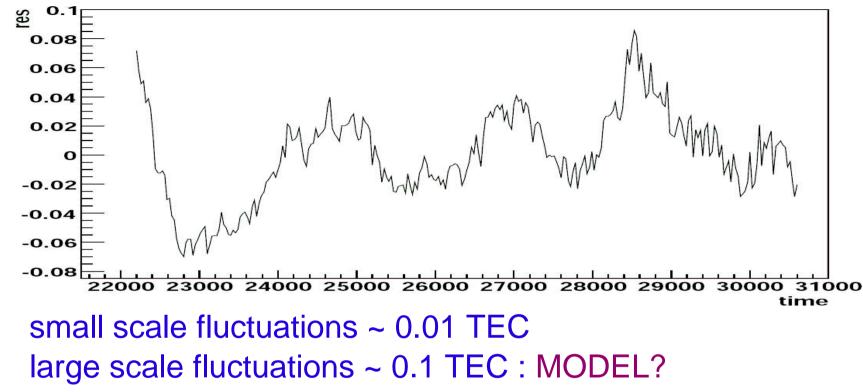
122 stations 9 selected: fit bias + $2^{nd}/4^{th}$ order MIM

fix MIM + fit bias for all stations

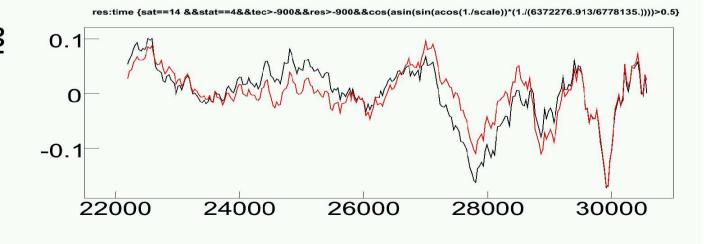
Piercing Points

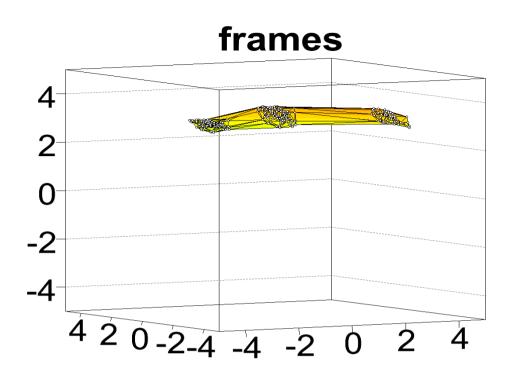


Residuals



difference between ⁵ 2nd and 4th order MIM fit



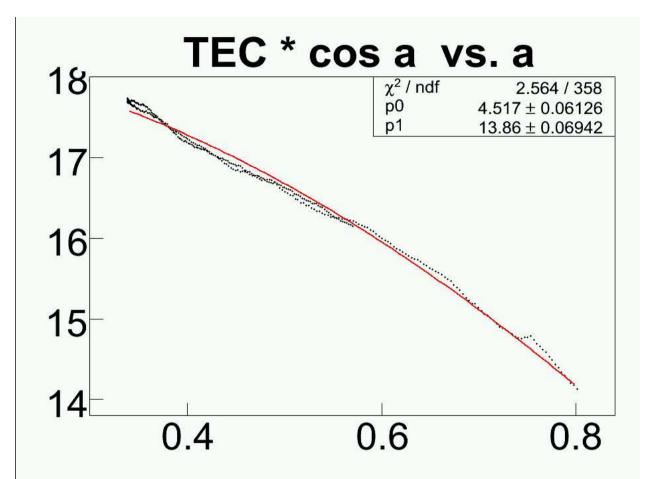


Visualize what is going on (TEC_{meas}-bias)*cos(α) vs. time Negative values!

Solution very sensitive to input: eg. 3 hour fit/ 2x 1.5 hour fit residuals about the same (0.1 TEC)

difficult to separate bias from MIM

Investigate Bias at track level



 $TEC_{measured} \cdot cos(\alpha') = bias_{sat, station} \cdot cos(\alpha') + TEC(t)$

FIT: $p0 + p1 \cdot cos(\alpha')$ From MeqTree fit: Bias = 14.1