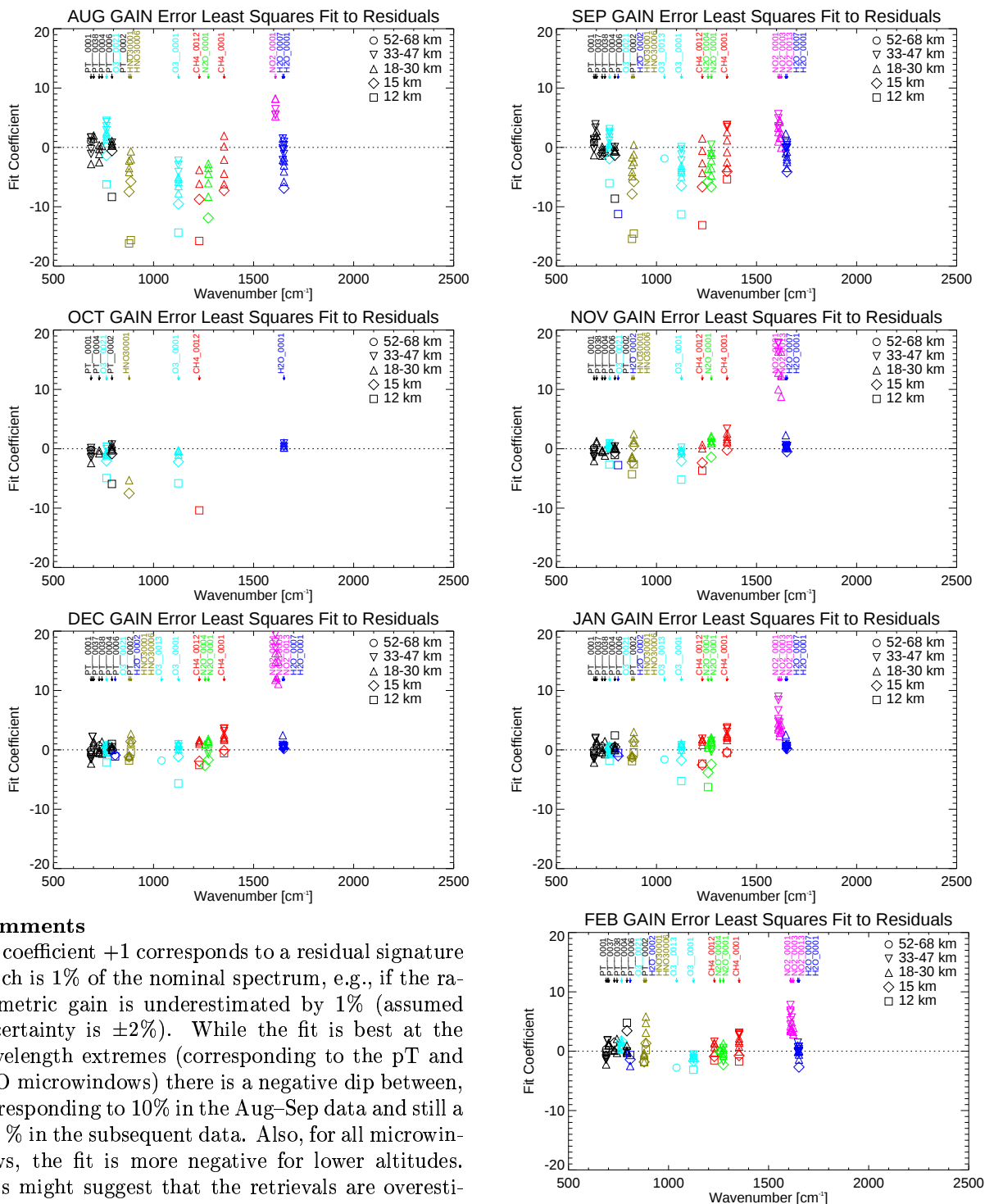


7.3 Gain (0th Derivative)



Comments

Fit coefficient +1 corresponds to a residual signature which is 1% of the nominal spectrum, e.g., if the radiometric gain is underestimated by 1% (assumed uncertainty is $\pm 2\%$). While the fit is best at the wavelength extremes (corresponding to the pT and H₂O microwindows) there is a negative dip between, corresponding to 10% in the Aug–Sep data and still a few % in the subsequent data. Also, for all microwindows, the fit is more negative for lower altitudes. This might suggest that the retrievals are overestimating concentrations at low altitudes in these microwindows and possibly underestimating high altitudes. The fit in the NO₂ microwindow is persistently high.

Recommendations

Investigate altitude dependence, and high residual in the NO₂ microwindow.