

The revised paper “Improved aerosol correction for OMI tropospheric NO₂ retrieval over East Asia: constraint from CALIOP aerosol vertical profile” by Liu et al. describes an improved OMI tropospheric NO₂ retrieval for East China using CALIOP aerosol vertical profile information.

By including an evaluation of the “QA4ECV” NO₂ product in the revised manuscript, a clear effort has been made to address the most important comment from my review of the original paper.

The revised paper can be recommended for publication in AMT.

Minor comment:

Figure 7: the label for the horizontal axis should be “ Δ alh (km)”