Interactive comment on “Temperature lidar measurements from 1 to 105 km altitude using resonance, Rayleigh, and Rotational Raman scattering” by M. Alpers et al.

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Authors argue that a full profiles will be valuable for tides, planetary waves, and gravity waves. This need to be more demonstrated how the full profile help those studies. This is quite obvious for gravity waves while is is probably limited to orographic waves that propagate vertically, but not for planetary waves. Also tides require a diurnal monitoring that is only obtained with the potassium lidar. Rayleigh daytime operations are very difficult and limit the profile to at best 70 km. In this case how can we perform the overlap. For daytime Rotational Raman technique this needs to be demonstrated or requires to cite some specific works.