

Review(Reviewer # 2) of revised “Seasonal variability of atmospheric tides in the mesosphere and lower thermosphere: meteor radar data and simulations” by Dimitry Pokhotelov et al. (ANGEOS communicates, April 2018)

With regard to my first review - I was not informed that this paper format had a four page limit. My “light” comment still stands - but I agree can’t be satisfied in four pages. The paper is now acceptable if the figure scales are equalized.

The response misunderstood what I said in the first review: I would re-word that comment as “an error in one (zonal or merid.) wind component *is* spread to the other because of the radial nature of the measurement”. Yes, a standard least squares fit produces mathematical N and E error estimates but they are incorrect. Imagine that there are only variations in  $V_E$ , while  $V_N$  is constant. A change in  $V_E$  modifies the radial velocity, and thus modifies the  $V_N$  component of the radial velocity. Thus, with radial measurement, the N and E wind components are coupled. Try a model. (I have). I think that explains why the on-line h90-format SKiYMET data do not show errors.

Figs. 1,2 (meteor radars) have one scale (0-60 m/s) while 3,4 (KMCM) have a different scale (0-50 m/s). For the stated purpose of comparison, the scales should be the same.

Fig. 5 is a good addition to the paper.

minor:

Pg 4, line 7: “ are needed ”

Pg 4, line 10 “to the model, where GWs are parameterised.”