

## ***Interactive comment on “Air quality in the Kathmandu Valley: WRF and WRF-Chem simulations of meteorology and black carbon concentrations” by Andrea Mues et al.***

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Addition to our reply to the comments of reviewer #2

Following the reviewer's comment to extend the meteorological analysis, we included/extended the evaluation of meteorological parameters by adding:

- geographical distribution of precipitation (section 3.1.6) and a new figure (fig. 11) showing a comparison of precipitation maps from WRF and TRMM

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- mixed layer height (section 3.1.5) by adding a separate discussion of the dry and rainy season and by revising figure 9 now showing the diurnal cycle of MLH for these two seasons separately
- vertical profiles of temperature and humidity from radiosondes (section 3.1.2)
- zonal and meridional wind fields (section 3.1.1) by adding an analysis of the 800 hPa wind fields (new figure S1 in the supplement)
- comparison of the statistical metrics used for temperature and wind speed with the benchmarks proposed by Emery et al. (2001) (sections 3.1.3 and 3.1.4)

A “track changes” version of the revised manuscript is provided as a supplement. Please also see our ‘Reply to reviewer #2’ published on 27 Nov 2017 in the GMD discussion forum.

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