

Interactive comment on “Cold air outbreaks and their signature in the ozonometric data at the mountain station near Kislovodsk, Russia” by N. P. Chakina et al.

N. Chakina

chakina@rhmc.mecom.ru

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We thank Dr. Sprenger for his detailed discussion. We agree with almost all his comments which in fact will make the revised form of the paper more clear. As to frontal parameter, we prefer to place its definition into an Appendix. We do not think that it would be better to start with the large-scale dynamics instead of with the surface observations. The latter include the ozone data and specific changes in weather variables which require analysis and explanation, - mainly by considering large-scale dynamics, - and are referred to as the cold front signatures. We believe the cold front signature explicit representation in the surface data, especially in the ozonometric ones, is the main finding of our paper. At least, we found no such result in the previously published

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