

Review of "Cross-polar transport and scavenging of Siberian aerosols containing black carbon during the 2012 ACCESS summer campaign" by J.-C. Raut et al.

General comments:

The manuscript is much improved over the previous version. I now recommend the paper for publication in ACP and suggest only minor changes before publication.

Minor comments:

P1L13, "very small (< 30%)", remove "very".

P1L13-14, "precipitation amounts were larger (5-10 mm)" --> the accumulated precipitation amounts were larger (5-10 mm).

P25L20-23, I think that the spatial distributions of dry deposition of BC (Figure 12a) are co-located with the divergence regions of the horizontal BC flux in the PBL (Figure 7c), which may be correspond to the BC emission regions, not the upward BC flux regions and the divergence regions of the horizontal BC flux in the FT. Please check the relationship.

P27L7-8, "TEBC(z)", it is defined by 3D (x, y, z) and the authors need not to write a function of altitude z.

P28L12 and P29L5, "deposition process". It is better to replace this by "removal". In general, deposition of aerosols indicates that the aerosols are removed from the atmosphere to the surface.