

***Interactive comment on* “Impact of the aging process of black carbon aerosols on their spatial distribution, hygroscopicity, and radiative forcing in a global climate model” by D. Goto et al.**

D. Goto et al.

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Dear Dr. G. Kulkarni,

Thank you very much for your comment. We feel that results of the hygroscopicity are mentioned in the abstract, but to more clarify them, we will modify it in the revised version as follows;

Second, a ratio of water-insoluble BC to total BC (WIBC ratio) was very different among the three methods. Near the BC source region, for example, the WIBC ratio were estimated to be 80–90% (AGV and AGF) and 50–60% (ORIG).

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→ Second, the calculated hygroscopicity of BC particles was very different among the three methods. Near the BC source region, for example, the ratios of water-insoluble BC to total BC (WIBC ratios) were estimated to be 80–90% (AGV and AGF) and 50–60% (ORIG).

Sincerely yours,

Daisuke Goto

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 29801, 2012.

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