

Interactive comment on “Transpacific transport of Benzo[a]pyrene emitted from Asia: importance of warm conveyor belt and interannual variations” by Y. Zhang et al.

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The discussion paper provides a good research design to investigate the trans-Pacific transport of those persistent organic pollutants whose primary emission sources still release concentrations to the atmosphere. Zhang et al. elaborate most concerns on the transpacific transport, such as transport pattern, contribution of different source, and episodic transport event.

In my opinion, comparing results will likely to be better if global emission of BaP is considered because distance between source region and receptor region of a chemical strongly affect its atmospheric levels in the receptor region. Such results coupled with

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those presented in the text can provide further understanding on the contribution to North America from Asian source.

In the text, it has been pointed that largest transport flux occurs at a height of 3–5km each year, why do you often emphasize the transports at 1200 m?

Minor comment: Annual mean horizontal transport pattern of BaP and wind vectors are at the height of 3 km in the text, but at 1200 m in Fig. 2.

Interactive comment on Atmos. Chem. Phys. Discuss., 11, 18979, 2011.