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Interactive comment on “Enhanced internal gravity wave activity and breaking over the Northeastern Pacific/Eastern Asian region” by P. Sacha et al.

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Kozubek et al. (2014) proved a strong longitudinal dependence of meridional circulation at 10 hPa level northward of $\sim 40^{\circ}\text{N}$ in January. This means also longitudinal dependence of the Brewer-Dobson (BD) circulation. They also found at 10 hPa in January a well-pronounced ‘Aleutian’ high and a maximum of temperature at longitudes/latitudes of your interest. Temperature maximum probably means in January a maximum of downwelling (adiabatic heating) due to maximum of BD circulation. This all supports your arguments and should be used in the paper.

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M. Kozubek et al.: Northern Hemisphere stratospheric winds in higher midlatitudes: longitudinal distribution and long-term trends. *Atmos. Chem. Phys.*, 15, 2203-2213, 2015, www.atmos-chem-phys.net/15/2213/2015/.

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 15, 18285, 2015.

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15, C4596–C4597, 2015

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