

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

**J. Laštovička**

jla@ufa.cas.cz

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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/](http://www.atmos-chem-phys.net/15/2213/2015/).

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

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