

Interactive comment on “A tropospheric pathway of the stratospheric quasi-biennial oscillation (QBO) impact on the boreal winter polar vortex” by Koji Yamazaki et al.

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It would be useful to remind the reader that the QBO has a wavenumber=0, and therefore is distinct from off-equatorial effects. As with the upper stratospheric Semi-Annual Oscillation (SAO) which is clearly tidally forced by the solar semi-annual cycle, the QBO is forced by the group-symmetrical draconic/nodal lunar tide of 27.2122 days interacting with the annual signal. Only nodal tidal patterns are allowed for a wavenumber=0 standing wave.

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