

The Quasi 2-day wave (QDTW) in the middle atmosphere has been extensively studied in the past, but still there are only few long-term observations of this wave in the winter middle atmosphere from ground-based observations, and additional data are therefore necessary.

The authors present data from 7 years of water vapor radiometer observations. The paper is well written, the method of observation and analysis is well described and the results are clearly presented. I recommend the paper to be published in ACP.

Although the paper may, in my opinion, be published in the present form, the authors may wish to consider/discuss a few points:

The authors are right when explaining that reanalysis water vapor is most probably not accurate enough to analyze the QDTW from that. But the wave should be visible in other parameters, too, and a future study could make use of this.

QDTW phases are not shown, although they might be of interest e.g. to check possible phase locking with the tides.

On Figure 8 the years should be provided on the abscissa

The bicoherence spectra are shown only for 2 months out of 84 available. So the conclusion drawn from them should be made with caution, and actually I would have been interested in what happens during the other months.