

## Response to reviews of “On the forcings of the unusual QBO structure in February 2016” by Haiyan Li et al.

Dear Editor,

We would like to thank the three anonymous reviewers for their comments and suggestions, which led to a substantial improvement of the manuscript’s quality. In the following paragraphs, we include our point-by-point responses (in dark gray) to **reviewer #2 comment (bold black)**.

Your sincerely,  
Haiyan Li  
Robin Pilch Kedzierski  
Katja Matthes

### Point-by-point responses to Reviewer #2:

1. **p3, l.21 & p 15, l.25: Center->Centre**  
Corrected.
2. **p.4, l.3: (following Hansen et al. (2016). -> (following Hansen et al. (2016)).**  
Corrected.
3. **p.4, l.28ff: here you write: "where the propagation of waves is highly affected by the background winds through Doppler shifting, and thus a single Rossby wave mode can occupy any region in the wavenumber-frequency domain depending on the background wind condition."**  
**To my knowledge, Doppler shifting by the background wind will mainly change the intrinsic frequency, and not so much the ground based frequency of a wave. Therefore I think the above statement is too strong. ##### --> change to 'can occupy different regions in the wavenumber-frequency domain...'**  
Corrected.
4. **p.11, l.14 there's a -> there is a**  
Corrected.
5. **Units are missing in Figs. S4 - S7**  
Corrected.