

Interactive comment on “Validation and application of optimal ionospheric shell height model for single-site TEC estimation” by Jiaqi Zhao and Chen Zhou

Anonymous Referee #1

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The manuscript is well written and clear. This paper models the optimal thin layer altitude as 40th order Fourier series. The optimal altitude coefficients are estimated at a reference station and used for estimating the thin shell altitude of the near stations. This approach is very useful for precisely estimating the TEC and DCB in not IGS-platform.

It would be interesting to see what are the performances in DCB estimation if the number of coefficients of the Fourier series changes, it would be interesting to see what is the minimum number of coefficients required.

There is in addition a typo comment, on page 7 line 132, you should insert the IPP

C1

acronym, that has not been specified before.

Interactive comment on Ann. Geophys. Discuss., <https://doi.org/10.5194/angeo-2018-73>, 2018.