

We are grateful to the editor for the suggestions and corrections to the revised manuscript. We have edited it accordingly by correcting the typo mistakes and following the suggestions:

- The resolution of Figures 2 and 7 have been increased from 300dpi into 600 dpi.
- The global surface temperature anomaly at the start of warm water intrusion into Ross Shelf has been added into Section 3.2.2
- The previous reference to the article in review has been updated. It (Zhao et al., 2022) has just been accepted a few days ago, so we have included the DOI.