

REVIEWER #3:

The reference to Schaeffer et al. (2015; cited on p. 20105), which refers to details on the data processing, is missing from the list of references. If it has not been published yet, then it would be helpful to include these details in the present paper.

There are two references providing details on the data processing, especially the way the glider profiles from all deployments were gridded and averaged to provide a mean state of the ocean variables (used here to compute the anomalies $Z(x)$). The first one is Schaeffer et al, 2015, available in Geophysical Research Letters:

Schaeffer, A., and M. Roughan, 2015: Influence of a western boundary current on shelf dynamics and upwelling from repeat glider deployments. Geophysical Research Letters, 42, 121 - 128, doi:10.1002/2014GL062260.

Unfortunately the second one, Schaeffer et al., 2016, which is a data descriptor and provides more information on biogeochemical data and individual glider deployments, is still in review at this time:

Schaeffer, A., M. Roughan, T. Austin, B. Hollings, E. King, A. Mantovanelli, S. Milburn, B. Pasquer, C. Pattiariatchi, R. Robertson, I. Suthers, D. White: Mean hydrography on the continental shelf from 25 repeat glider deployments along Southeastern Australia. Scientific Data, in review.

We are hoping that it would be available before the final version of this manuscript.