Editor's review
Thanks to the authors' revision, the manuscript has now gained in clarity. I congratulate the authors for their work in deploying, processing, and making available such a large dataset that will be useful to the community. I am satisfied with this version. I just have picked up very minor points below that do not necessitate a second round of reviews.

We thank the Editor for the careful assessment of our revision and for the positive comments on the manuscript. We are pleased that the revisions have improved the clarity of the paper and that the dataset is considered valuable for the community. All minor points raised have been addressed, and the corresponding corrections have been implemented in the updated version of the manuscript, with changes indicated in blue.

- l. 191: 'The integration of turbulence signals relies on spectral segmentation and windowing...' - Better say 'Estimating dissipation rates relies on spectral segmentation and windowing...'
- l. 192: 'commonly four 3-second segments', detail not useful here as you provide more details in following sections
- l. 192: '... rather than on averaging of the raw time series.' I'm not sure what you mean, would be better to remove it.

Thanks to the Editor, these suggestions have been integrated: the text has been corrected and simplified.

l. 210: ' ... spectra are only integrated over a restricted wavenumber range...': remove 'only'. This is the usual processing.

The text has been corrected.

l. 456: 'and organizes the dissipation coefficients. ' 1) I'm not sure to understand what is meant by ''organizes' ? Is it data formatting ? I would replace 'dissipation coefficients' with 'dissipation rates'

Thank you for this suggestion. We agree that the wording was ambiguous. We replaced "organizes the dissipation coefficients" with "collects the dissipation rate estimates together with their associated quality metrics and hydrological variables" to clarify that **L4_shears.m** does not perform additional processing, but rather gathers the ε estimates, QC diagnostics, and co-located glider hydrology into a consistent output structure for saving and distribution.

l. 459-460: 'In L4_FP07s.m are extracted and organized the dissipation estimates of thermal variance (χ)', revise sentence construction

The sentence has been corrected: "In L4_FP07s.m, the thermal variance dissipation rate (χ) estimates are extracted and compiled for output."

l. 590, Fig. 3: beware that captions 'a' and 'b' remain attached to the figure

Captions and figures have been corrected.

Authors' corrections

Minor revisions from the authors have been done:

- The author's name Nikolaos Zarokanellos has been corrected to Nikolaos D. Zarokanellos.
- Joaquín Tintoré's affiliation has been completed.
- The references, Tintoré et al., 2013, Tintoré et al., 2019, and Juza et al., 2025 have been added in the text (lines 34 and 38) and to the bibliography.