

Reply 2 to Reviewer 1

Estimating ocean currents from the joint reconstruction of absolute dynamic topography and sea surface temperature through deep learning algorithms

By Daniele Ciani , Claudia Fanelli , and Bruno Buongiorno Nardelli

The authors have addressed my concerns in the first round of the manuscript. I found the manuscript has improved and it is ready for publication after a few minor typos corrections or suggestions.

We thank the Reviewer for the constructive comments on our manuscript and for providing additional help to identify typos and inconsistencies. Please find below a point-by-point reply.

Minor typos, number of line referred to the track changes manuscript:

l.75 typo "resoultion"

Thanks. This has been corrected, please check line 73 of the newly revised manuscript.

l. 123 cut off wavelength

We considered adding this expression, please check line 120-121 of the newly revised manuscript.

Caption Fig 6. Remove parenthesis (Kinetic Energy spectra of

Thanks. This has been corrected, please check Figure 6 of the newly revised manuscript.

l. 273 until scales of ≈ 40 km? I think is clear in 50km

Thanks. We modified it to 50 km, please check line 270 of the newly revised manuscript.

l.375 inter-compare inter compare (be cohesive)

Thanks for finding this inconsistency, we adopted the "inter-compare" version through the entire manuscript.

l. 431 Consider to include a reference here: as shown recently by González-Haro et al. 2024

We considered adding this statement and related reference. Please check line 430 of the newly revised manuscript.

On behalf of the Authors
Daniele Ciani