

Thank you.

The editor's the suggestions were implemented.

**Comments to the author:**

The paper is almost ready for publication. I ask you only a couple of adjustments in order to take into account also updates in publications you mentioned.

1) line 67: to the Giorgi 2000 reference, I recommend adding the recent paper Upper Ocean Temperatures Hit Record High in 2020 by Lijing Cheng et al., (2021)

<https://link.springer.com/article/10.1007/s00376-021-0447-x>

Done .

2) Line 109: GLODAP has been continuously updated and I suggest adding references to new versions

- An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2020, by Are Olsen et al

<https://essd.copernicus.org/articles/12/3653/2020/essd-12-3653-2020.pdf>

- An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2021 by Siv K. Lauvset et al, <https://essd.copernicus.org/preprints/essd-2021-234/>

There is no need to update the list of data sources in table A1

The GLODAP references has been updated as well.