

Interactive comment on “Observed and Modelled Mixed-Layer Properties on the Continental Shelf of Sardinia (Mediterranean Sea)” by Reiner Onken

R Onken

reiner.onken@hzg.de

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letter

(1) Change of title

The Reviewer may be right although a description is present in the manuscript by means of the M1 time series. On the other hand, I have no problem to change the title as suggested by the Reviewer.

(2) Use of units for temperature ...

Does the Reviewer mean the mixture of °C and K(elvin)? If so, I used °C for absolute temperatures and K for temperature differences. See
https://en.wikipedia.org/wiki/KelvinUse_in_conjunction_with_Celsius:

C1

In science and engineering, degrees Celsius and kelvins are often used simultaneously in the same article, where absolute temperatures are given in degrees Celsius, but temperature intervals are given in kelvins. E.g. "its measured value was 0.01028 °C with an uncertainty of 60 µK."

This practice is permissible because the degree Celsius is a special name for the kelvin for use in expressing relative temperatures, and the magnitude of the degree Celsius is exactly equal to that of the kelvin.[10] Notwithstanding that the official endorsement provided by Resolution 3 of the 13th CGPM states "a temperature interval may also be expressed in degrees Celsius",[4] the practice of simultaneously using both "°C" and "K" is widespread throughout the scientific world. The use of SI prefixed forms of the degree Celsius (such as "µ°C" or "microdegrees Celsius") to express a temperature interval has not been widely adopted.

(3) Unify the two references Onken et al.

The manuscript was written with L^AT_EX, using the style file provided by OS. For citations, this style file offers only the commands `citet` and `citep` which do not allow to unify more than one reference of the same author in one reference. However, this can be repaired by writing the references manually without usage of `citet` and `citep`. Will be done in the final version.

(4) Correct “begin” in “beginning”

OK

(5) Unify the two references ...

see (3) above, same issue

(6) Correct “to shallow” in “too shallow”

OK

(7) Put up the DOI ...

C2

OK

(8) Delete the reference Lurton (2010) ...

OK