

We thank the editors for highlighting the potential inconsistencies in the re-submitted manuscript.

Authors' responses to the specific comments are given in red.

Dear Authors,

thank you for the detailed reply to the referees' comments and the updated manuscript.

I noticed a few minor inconsistencies, which should get clarified before publication:

Figure 23 does not exist, please check your numbering, or explain why it was removed.

While reviewer 1 left a comment to a Figure 23 (F23), this never existed neither in the nominal nor in the updated manuscripts. He was instead referring to Figure 21. We forgot to mention this in the response to his specific comment.

In a few occasions modifications seem to have been made to the figures, make sure that the figure caption reflect these changes.

We checked again the whole manuscript and no inconsistency was found between figures and captions.

Modifications done solely to account for color blind compliancy (that were not explicit in the response to reviewers) are listed in a specific response below.

Do you intend to integrate the updated figures shown in the rebuttal letter to also the updated manuscript? At least it has not been done yet and that may explain the number counts of figures.

As detailed in the response to the reviewers those additional figures are not going to be integrated into the manuscript as they are not adding much to the discussion (see specific responses).

Notification to the authors:

Please ensure that the colour schemes used in your maps and charts allow readers with colour vision deficiencies to correctly interpret your findings. Please check your figures using the Coblis – Color Blindness Simulator (<https://www.color-blindness.com/coblis-color-blindness-simulator/>) and revise the colour schemes accordingly. --> Figs. 6, 8, 9, 18

The requested checks on Figures 6, 8, 9 and 18 had already been done for the first round of reviews. Nevertheless, we now further improved Figure 6, 8 and 18 for color blind compliancy in the version to be uploaded for this second round (text and captions updated accordingly).

Here is a list of all the applied updates.

Figure 6: colors and linestyles updated (vertical lines now share the same linestyle, with the exception of MAJIS ocean wavelengths which retain the dashed-dotted linestyle):

cyan and green lines → dashed-dot light-blue and dashed green respectively;

solid black → dotted black .

Figure 8: colors and linestyles updated:

cyan → dashed grey;

light green → green with crosses;

red → dashed red;

Figure 9: no change needed as different symbols and thicknesses are already adopted.

Figure 18: colors and linestyles updated:

In all panels: black → dashed-dot black;

in panel D: red → dashed light green; blue → black with crosses