

# Rebuttal to “The sensitivity of pCO<sub>2</sub> reconstructions in the Southern Ocean to sampling scales: a semi-idealized model sampling and reconstruction Approach”

by Djeutchouang, Chang, Gregor, Vichi, Monteiro

## Overview of the changes

First of all, we would like to take the opportunity to thank the Associate Editor's decision to publish our manuscript subject to technical corrections to suit the BG guidelines. We have made a few technical changes to the manuscript figures as recommended.

In the document below, we show the response of the Associate Editor in bold and blue, and the response to each point in black/italics.

## Overview

Dear authors,

**Many thanks for revising your manuscript. I am happy to accept it in its present form but would like you to rework the colour scheme used in Figures 4 and 8 before uploading the figures for final publication. The BG guidelines specify that "it is important 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 and revise the colour schemes accordingly." The combination of red and green, particularly with the red dashed line in Figure 4 might cause difficulties for some readers.**

Best regards

**Peter Landschützer**

*We thank the Associate Editor for the recommendation. Following the BG guidelines for colour schemes used in the maps and charts, we revised the colour schemes we used in Figures 4a and 8b of the final manuscript. We chose a more perceptually uniform colour scheme, “RdYlBu”, which is different from “jet”. After testing the resulting maps through the Coblis-Color Blindness Simulator, they now look much more colour-vision-deficiencies friendly compared to using the “turbo” colour scheme that was initially used. The red dashed line in Figure 4a has been changed to a black dashed line.*

*We thus took this into account before uploading the files required for the production process.*