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Climate of the Past Discussions

Interactive comment on "Sensitivity of Pliocene climate simulations in MRI-CGCM2.3 to respective boundary conditions" *by* Youichi Kamae et al.

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We appreciate your careful reading of our manuscript and your helpful suggestions for its improvement. I'm happy to incorporate all of your suggestions to our manuscript.

> 1. The color scheme used in Figure 1 (page 19) to illustrate the prescribed land cover for the modern and Pliocene periods makes it hard to distinguish between certain types. For example, deciduous broadleaf+evergreen conifer (03), tundra (10) and land ice (13) are too similar in color and difficult to decipher. A broader range of color scheme is recommended for this figure. > 2. The color scheme for Figure 2C (page 20) also makes it difficult to see the single grid cell light blue pixels, in particular, in North America and Asia. I recommend either contouring the small lake areas or using a bolder color to enhance them.

We will improve color schemes in Figures 1 and 2c in revised version of our manuscript for clarity.

> 3. For consistency, I recommend using the same surface air temperature (SAT) units throughout the figures and manuscript. For example, Figure 4 uses °C for SAT while Figure 5 uses K.

In the revised manuscript, we will use "°C" consistently in main text and Figures 4-6, 11-12 and Tables according to your suggestion.

> 4. To better follow the naming convention, I recommend reordering the text on page 4 line 30 to be consistent with the "OVL" acronym (e.g., "orography, vegetation, and lakes"). > 5. Since "OVL" is used throughout the text, I recommend adding it to the label ("Orog+Veg+Lake (OVL)") for Figures 4C, 4G (page 22), Figure 6C (page 24), Figure 7C (page 25), Figure 8C (page 26), and Figure 9C (page 27).

We will modify the order of the words in main text, and use "OVL" consistently in figure labels. Thank you for your kind suggestions.

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