

***Interactive comment on “Climate and music (Toward development of the interdisciplinary climate and cultural understanding education of ESD with special attention to the seasonal cycle and “seasonal feeling” around Japan and Europe)” by Kuranoshin Kato et al.***

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Thank you very much for your careful reading of our manuscript and very helpful comments and suggestions. We apologize for our not so quick response due to the unusual situation in our university affected by the Coronavirus epidemic and its prevention.

In the following authors' response to the reviewers' comments, we will italicize the comments, and add our answers below. In the answers, page and line numbers and figure

numbers are based on the previous manuscript uploaded as the discussion paper.

<Specific comments> 1. Figure 2: What are background colors indicated? If they have any meanings, they need to be added in the figure caption.

The background colors do not have any climatological meanings. However, for visual readability, some background colors are indicated. We will add such statement in the figure's caption.

2. Figure 16: The contour lines seem to be sea level pressure, but are these contours needed?

The contour lines were for the sea level pressure in climatological January mean. However, as the reviewer points out, the contours were deleted and the figure will be replaced as follows.

<Technical comments> 1. L51: Asian monsoon -> East Asian winter monsoon 2. L86: music -> Music(?) 3. L133: 35N -> 35°N 6. L498: Over -> over

Thank you very much. We will do so on 1. to 3. and 6.

4. L164: In L164, it is 96. Which is correct?

“93 colors” is correct. We will change into the correct one.

5. L170: by Molton Feldman: Need reference, if available.

“Graphic notation” is also sometimes used in the modern music as well as the conventional notation called “mensural notation” or “staff notation”. Thus presenting the references on the general explanation of the “graphic notation”, in the research sense, seems to be not so easy for us. Instead, we are thinking to present a dictionary of music, e.g., “Das Grosse Metzler Musiklexikon”, as a reference.

7. L781: In figure title, it is shown as 1000 hPa temperature. Which is correct?

Thank you very much. 1000hPa is correct. For convenience of the preparation of

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the figures at the lesson practice about 8 years before, we used the temperature at 1000hPa as the substitute for those at the surface level in Kato et al. (2014). Thus such statement will be added to the caption of Fig. 12 as follows, together with the other necessary parts.

Figure 12: Examples of the day-to-day variation of daily mean air temperature at 1000hPa level (°C) around the eastern part of the Japan Islands (37.5°N/140°E) for the two years of 1983/1984 and 2005/2006 based on the NCEP/NCAR re-analysis data, modified from Kato et al. (2014). Names of the months are shown at the beginning of them. The data at this level were used as the substitute for those at the surface level in Kato et al. (2014).

Please also note the supplement to this comment:

<https://gc.copernicus.org/preprints/gc-2020-18/gc-2020-18-AC2-supplement.pdf>

Interactive comment on Geosci. Commun. Discuss., <https://doi.org/10.5194/gc-2020-18>, 2020.

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