

Review for the manuscript

Asymmetric changes of temperature in the Arctic during the Holocene

based on a transient run with the CESM

by Hongyue Zhang et al.

Submitted for publication in *Climate of the Past*

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Thank you for deciding to accept our article. We have revised the technical corrections.

Line 295: ‘The first and second leading modes are statistically independent at 95% confidence level.’ You should explain the methodology used to determine that the two models are independent or give a reference.

Reply: Thank you for your suggestion. We used the equation 24 from North et al.(1982) as the statistical test. We modified the description of 2.3 in Method and data and Line 295 by the following statement.

In 2.3: “Equation 24 from North et al., (1982) was used as a statistical test to evaluate the separation of EOF eigenvalues (leading modes).”

Line 295: “The first and second leading modes are statistically independent at 95% confidence level on North significance test (North et al., 1982).”