

**Zhengyu Liu**  
**Publications**

**In Press**

- Bova, S. Y. Rosenthal, **Z. Liu**, M. Yan, A. J. Broccoli, S. P. Godad and C. Zeng, 2021: Reply to MA: Concerns on roles of polar sea-ice variability. *Nature*, in press
- Du X., J. M. Russell, **Z. Liu**, B. L. Otto-Bliesner, Y. Gao, C. Zhu, D. W. Oppo, M. Mohtadi, Y. Yan, V. V. Galy and C. He, 2021: Deglacial trends in Indo-Pacific Warm Pool hydroclimate in an isotope-enabled Earth system model and implications for isotope-based paleoclimate reconstructions. *Quat. Sci. Res.*, in press.
- He C., **Z. Liu**, B. L. Otto-Bliesner, E.C. Brady, C. Zhu, R. Tomas, S. Gu, J. Han and Y. Jin, 2021: South China hydroclimate variability heavily contributed by autumn rainfall during the last deglaciation. *Nature Comm.*, in press.

**2021**

- He C., **Z. Liu**, B. L. Otto-Bliesner, E. C. Brady, C. Zhu, R. Thomas, P. U. Clark, J. Zhu, A. Jahn, S. Gu, J. Zhang, J. Nusbaumer, D. Noone, H. Cheng, Y. Wang, M. Yan and Y. Bao, 2021: The hydroclimate footprint accompanying pan-Asian monsoon water isotope evolution during the last deglaciation. *Sci. Adv.* 10.1126/sciadv.abe2611
- Bova S., Y. Rosenthal, **Z. Liu**, S. Godal and M. Yan, 2021: Seasonal origin for the Holocene and last interglacial thermal maximum. *Nature* **589**, 548-553, 10.1038/s41586-020-03155-x
- He, C., **Z. Liu**, B. L. Otto-Bliesner, E.C. Brady, C. Zhu, R. Tomas, C. Buizert and J. Severinghaus, 2021: Abrupt Heinrich Stadial 1 Cooling Missing in Greenland Oxygen Isotopes. *Sci. Adv.*, 10.1126/sciadv.abh100
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- Buizert C., T.J. Fudge, W. H. G. Roberts, E. J. Steig, S. Sherriff-Tadano, C. Ritz, E. Lefebvre, J. Edwards, K. Kawamura, I. Oyabu, H. Motoyama, E. C. Kahle, T. R. Jones, A. Abe-Ouchi, T. Obase, C. Martin, H. Corr, J. P. Severinghaus, R. Beaudette, J. A. Epifanio, E. J. Brook, K. Martin, J. Chappellaz, S. Aoki, T. Nakazawa, T. A. Sowers, R. Alley, J. Ahn, M. Sigl, M. Severi, N. W. Dunbar, A. Svensson, J. Fegyveresi, C. He, **Z. Liu**, J. Zhu, B. Otto-Bliesner, V. Y. Lipenkov, T. Kameda, M. Kageyama and J. Schwander: 2021: Antarctic-wide surface temperature and elevation during the Last Glacial Maximum. *Science*, **372**, 1097-1101. 10.1126/science.abd2897
- Jin Y. and **Z. Liu**, 2021: On the formation mechanism of seasonal persistence barrier. *J. Clim.* **34**, 479-494.
- Jin Y. and **Z. Liu**, 2021: A theory of Spring Persistence Barrier on ENSO. Part II: Persistence barriers in SST and ocean heat content. *J. Clim.* **34**, 5555-5564, 10.1175/JCLI-D-20-0820.1
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- Wen Q., Z. Han, H. Yang, J. Cheng, **Z. Liu** and J. Liu, 2021: Influence of Tibetan Plateau on the North American Summer Monsoon Precipitation. *Clim. Dyn.*, 10.1007/s00382-021-05857-y
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