

**Electronic Supplementary Material to:  
Westerlies Affecting the Seasonal Variation of Water Vapor Transport  
over the Tibetan Plateau Induced by Tropical Cyclones  
in the Bay of Bengal\***

Xiaoli ZHOU<sup>1,3</sup>, Wen ZHOU<sup>1</sup>, Dongxiao WANG<sup>2</sup>, Qiang XIE<sup>3</sup>, Lei YANG<sup>4</sup>, and Qihua PENG<sup>5</sup>

<sup>1</sup>*Key Laboratory of Polar Atmosphere-ocean-ice System for Weather and Climate, Ministry of Education & Department of Atmospheric and Oceanic Sciences & Institute of Atmospheric Sciences, Fudan University, Shanghai 200438, China*

<sup>2</sup>*School of Marine Sciences, Sun Yat-Sen University, Zhuhai 519082, China*

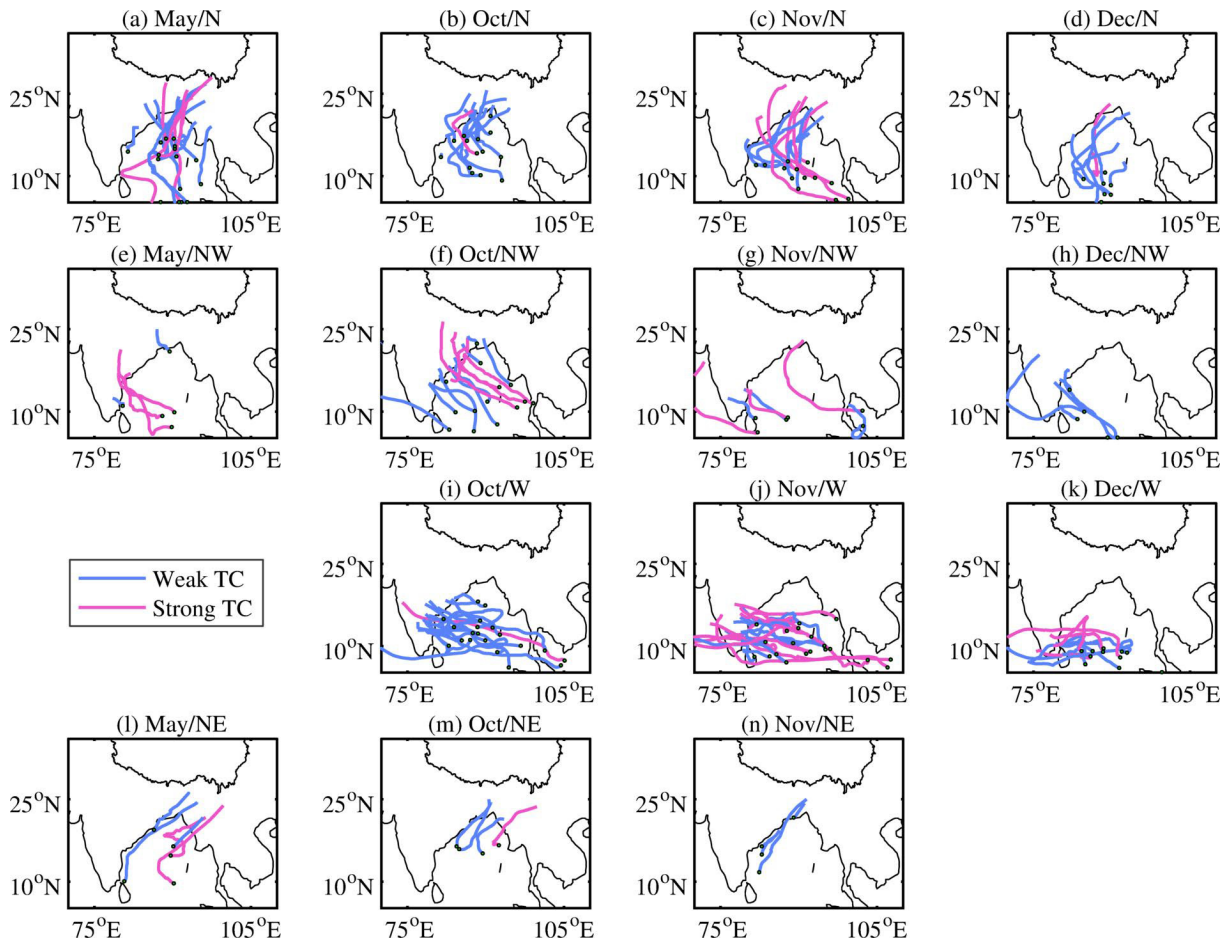
<sup>3</sup>*Institute of Deep-sea Science and Engineering, Chinese Academic Sciences, Sanya 572000, China*

<sup>4</sup>*State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Chinese Academic Science, Guangzhou 510301, China*

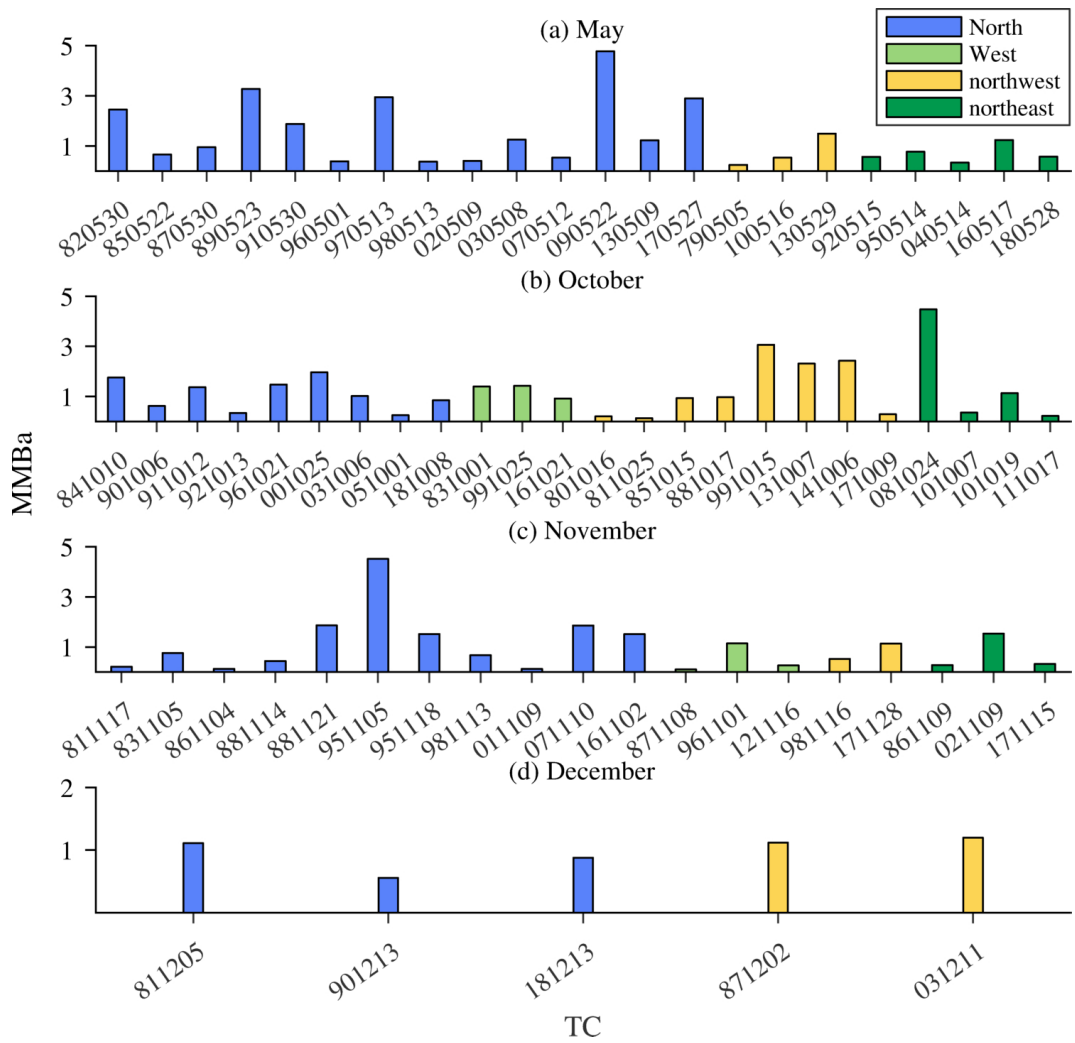
<sup>5</sup>*Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California 92093, USA*

**ESM to:** Zhou, X. L., W. Zhou, D. X. Wang, Q. Xie, L. Yang, and Q. H. Peng, 2024: Westerlies affecting the seasonal variation of water vapor transport over the Tibetan Plateau induced by tropical cyclones in the Bay of Bengal. *Adv. Atmos. Sci.*, **41**(5), 881–883, <https://doi.org/10.1007/s00376-023-3093-7>.





**Fig. S1.** The distribution of BOB TC tracks in May and October–December during 1979–2018. The letters N, NW, W, and NE denote the north-, northwest-, west-, and northeast-track TCs, respectively.



**Fig. S2.** The MMBA ( $\text{g s}^{-1} \text{cm}^{-1}$ ) over the SBTP integrated from 500 to 100 hPa for each TC during the double-peak TC seasons. Only TCs with an MMBA greater than zero are shown.