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海洋环流与波动重点实验室

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研究方向 上下层海洋耦合、海平面变化、气候变化

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个人简介

长期从事上层海洋过程的动力机制以及上下层海洋环流耦合的研究。在上层海洋动力过程研究方面, 针对现有上层海洋过程诊断模型简化程度过高等问题, 创新性地发展了全新的海平面动力和统计模型, 实现了对上层驱动力贡献的全面量化, 为理解上层海洋过程如何影响深层海洋环流提供了新思路。在上下层海洋环流耦合研究方面, 利用大量深层海洋环流观测资料, 实现了多尺度深层环流机制以及与上层海洋动力过程联系的研究。在国内外发表论文 10 余篇。

教育背景

2010.09 - 2019.05	美国南佛罗里达大学	海洋科学	理学博士
2007.09 - 2010.06	中国海洋大学	大气科学	理学硕士
2003.09 - 2007.08	中国海洋大学	大气科学	理学学士

工作经历

2025.04 - 至今	中国科学院海洋研究所	项目研究员
2021.09 - 2025.03	美国科罗拉多大学	博士后
2019.09 - 2021.08	美国特拉华大学	博士后
2019.05 - 2019.08	美国南佛罗里达大学	博士后

招生专业及方向

物理海洋学 (物理海洋/数学/物理/计算机等相关专业背景)

论文著作

- [1] **Zhu, Y.**, W. Han, M. A. Alexander, S. Shin, C. Liu, and Y. Lyu, 2025: Drivers of Low-Frequency Variability of Ocean Heat Content on the U.S. North East Shelf. *J. Climate*, 38, 2853–2871, <https://doi.org/10.1175/JCLI-D-24-0279.1>.
- [2] **Zhu, Y.**, W. Han, M. A. Alexander, and S. Shin (2023). Interannual Sea Level Variability along the U.S. East Coast during the Satellite Altimetry Era: Local versus Remote Forcing. *J. Climate*, 37, 21–39, <https://doi.org/10.1175/JCLI-D-23-0065.1>.
- [3] **Zhu, Y.**, Han, W., & Alexander, M (2023). Nonstationary roles of Regional Forcings in Driving Low-frequency Sea Level Variability Along the U.S. East Coast since the 1950s. *Geophysical Research Letters*, 50, e2023GL104191. <https://doi.org/10.1029/2023GL104191>
- [4] **Zhu, Y.**, & Liang, X. (2023). Near-Inertial Oscillations in the Deep Gulf of Mexico. *Deep Sea Research Part II: Topical Studies in Oceanography*. 210, <https://doi.org/10.1016/j.dsr2.2023.105310>.
- [5] **Zhu, Y.**, & Liang, X. (2022). Characteristics of Eulerian Mesoscale Eddies in the Gulf of Mexico. *Frontier in Marine Science*. DOI: 10.3389/fmars.2022.1087060.
- [6] **Zhu, Y.**, Mitchum, G. T., Doran, K. S., Chambers, D. P., & Liang, X. (2021). Distinguishing between regression model fits to global mean sea level reconstructions. *Journal of Geophysical Research: Oceans*, 126, e2021JC017347. <https://doi.org/10.1029/2021JC017347>
- [7] **Zhu, Y.**, Mitchum, G. T., Thompson, P. R., & Lagerloef, G. S.E. (2021). Diagnosis of Large-scale, Low-frequency Sea Level Variability in the Northeast Pacific Ocean. *Journal of Geophysical Research: Oceans*. <https://doi.org/10.1029/2020JC016682>
- [8] Huang, M., Liang, X., **Zhu, Y.**, Liu, Y., & Weisberg, R. H. (2021). Eddies connect the tropical Atlantic Ocean and the Gulf of Mexico. *Geophysical Research Letters*, 48, <https://doi.org/10.1029/2020GL091277>
- [9] **Zhu, Y.**, & Liang, X. (2020). Coupling of the surface and near-bottom currents in the Gulf of Mexico. *Journal of Geophysical Research: Oceans* 125, <https://doi.org/10.1029/2020JC016488>
- [10] **Zhu, Y.**, Zhou, S., Lin, Q., & Wu, Z. (2012) Dynamic and Thermal Analyses on a Rapidly Developing Extratropical Cyclone after Entering Sea. *Plateau Meteorology*, 31(3): 788-797. (In Chinese)
- [11] **Zhu, Y.**, Wu, Z., Lin, Q., & Zhou, S. (2010). Analysis of a Cold-air Outbreak Snowstorm Event Affected by Taihang Mout in Shandong Peninsula. *Periodical of Ocean University of China*, 40(Sup.): 001-008. (In Chinese)