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Research Interests

Physical-biological coupling

Phytoplankton blooms

Hypoxia

Shelf-deep sea exchange

Ocean numerical modelling

Coastal and shelf dynamic processes

Observing system design

Selected Peer reviewed publications

- [1] Hu Z, Ma X*, Peng Y, Tian D, Meng Q, Zeng D, Liu Z, Zhou B, Li H and **Zhou F***, 2022. A large subsurface anticyclonic eddy in the eastern Equatorial Indian Ocean. **Journal of Geophysical Research: Oceans**, 127(3), e2021JC018130,

doi:10.1029/2021JC018130.

- [2] Ma X, Liu A, Zhao Q, Wang B, Tian D, Meng Q, Zeng D, Li J, Huang D and **Zhou F***, 2022. Temporal variation of summer hypoxia off Changjiang Estuary during 1997–2014 and its association with ENSO. **Frontiers in Marine Science**. 9, 897063, doi:10.3389/fmars.2022.897063.
- [3] Meng Q, **Zhou F***, Ma X, Xuan J, Zhang H, Wang S, Ni X, Zhang W, Wang B, Li D, Tian D, Li J, Zeng J, Chen J and Huang D, 2022. Response process of coastal hypoxia to a passing typhoon in the East China Sea. **Frontiers in Marine Science**. 9, 892797, doi:10.3389/fmars.2022.892797.
- [4] Meng Q*, Zhang W, **Zhou F***, Liao Y, Yu P, Tang Y, Ma X, Tian D, Ding R, Ni X, Zeng D and Schrum C, 2022. Water Oxygen Consumption Rather Than Sediment Oxygen Consumption Drives the Variation of Hypoxia on the East China Sea Shelf. **Journal of Geophysical Research: Biogeosciences**. 127 (2), e2021JG006705, doi:10.1029/2021JG006705.
- [5] Tian D, **Zhou F***, Zhang W Y, Zhang H, Ma X and Guo X, 2022, Effects of dissolved oxygen and nutrients from the Kuroshio Current on hypoxia off the Changjiang Estuary, **Journal of Oceanology and Limnology**, 40 (2), 515-529, doi:10.1007/s00343-021-0440-3.
- [6] Xuan J*, Ding R and **Zhou F***, 2021. Storm surge risk under various strengths and translation speeds of landfalling tropical cyclones. **Environmental Research Letters**, doi:10.1088/1748-9326/ac3b78.
- [7] **Zhou F**, Chai F, Huang D, Wells M, Ma X, Meng Q, Xue H, Xuan J, Wang P, Ni X, Zhao Q, Liu C, Su J and Li H, 2020. Coupling and Decoupling of High Biomass Phytoplankton Production and Hypoxia in a Highly Dynamic Coastal System: The Changjiang (Yangtze River) Estuary. **Frontiers in Marine Science**, 7 (259), doi:10.3389/fmars.2020.00259.
- [8] **Zhou F**, Chai F, Huang D, Xue H, Chen J, Xiu P, Xuan J, Li J, Zeng D, Ni X and Wang K, 2017. Investigation of hypoxia off the Changjiang Estuary using a coupled model of ROMS-CoSiNE. **Progress in Oceanography**, 159, 237-254, doi:10.1016/j.pocean.2017.10.008.
- [9] **Zhou F**, Huang D, Xue H, Xuan J, Yan T, Ni X, Zeng D and Li J, 2017. Circulations associated with cold pools in the Bohai Sea on the Chinese continental shelf. **Continental Shelf Research**, 137, 23-58, doi:10.1016/j.csr.2017.02.005.
- [10] **Zhou F**, Xue H J, Huang D J, Xuan J L, Ni X B, Xiu P and Hao Q, 2015. Cross-shelf exchange in the shelf of the East China Sea. **Journal of Geophysical Research: Oceans**. 120 (3), 1545–1572, doi:10.1002/2014JC010567.
- [11] **Zhou F**, Shapiro G and Wobus F, 2014. Cross-shelf exchange in the northwestern Black Sea. **Journal of Geophysical Research: Oceans**, 119(4), 2143-2164,

doi:10.1002/2013JC009484.

- [12] **Zhou, F.**, Xuan, J.L., Huang, D.J., Liu, C.G., Sun, J., 2013. The timing and the magnitude of spring phytoplankton blooms and their relationship with physical forcing in the central Yellow Sea in 2009. **Deep Sea Research Part II: Topical Studies in Oceanography**, 97, 4-15, doi:10.1016/j.dsr2.2013.05.001.
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- [16] **Zhou F.**, Su J L and Huang D J, 2004. Study on the intrusion of coastal low salinity water in the west of southern Huanghai Sea during spring and summer. **Acta Oceanologica Sinica**. 26 (5), 34-44.