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教育经历:

2000/09-2004/06 中国海洋大学 海洋科学 学士

2004/09-2009/06 中国海洋大学 物理海洋学 博士

工作经历:

2009/07-今 中国海洋大学 海洋与大气学院 讲师

主要项目:

- 2012/01-2014/12, 国家自然科学基金青年项目“一般非线性拉格朗日时均环流理论在象山港的应用研究”(41106006), 主持
- 2017/01-2021/12, 国家自然科学基金重点项目“人类活动和自然变化对长江口-闽浙近海生态结构驱动机制的古-今对比研究”(41630966), 骨干
- 2017/01-2020/12, 国家自然科学基金面上项目“湍流非线性对拉格朗日余流的影响研究”(41676003), 骨干
- 2016/01-2019/12, 国家自然科学基金面上项目“东海陆架与黑潮之间的双向物质输运及其对日本海和西北太平洋的影响”(41576010), 骨干
- 2017/01-2021/12, 国家重点研发计划课题“灾害性海洋动力过程时空特征及其致灾规律研究”(2016YFC1402001), 骨干
- 2010/01-2014/08, 国家重点基础研究发展计划(973)课题“我国陆架海生态环境演变机制综合分析及未来变化趋势预测”(2010CB428904), 骨干

代表文章:

- Mao X., J. Shi, L. Zhao, W. Jiang, and P. Zhang, 2017: Paleo-temperature in the Yellow Sea during the mid-Holocene estimated using a numerical model. **Cont. Shelf Res.**, doi: 10.1016/j.csr.2016.12.016.
- Mao X., W. Jiang, P. Zhang, and S. Feng, 2016: Numerical study on inter-tidal transports in coastal seas. **J. Ocean Univ. China**, 15(3), 379-388.
- Mao X., W. Jiang, P. Zhao, and H. Gao, 2008: A 3-D numerical study of salinity variations in the Bohai Sea during the recent years. **Cont. Shelf Res.**, 28(19), 2689-2699.
- Xu P., X. Mao, and W. Jiang, 2016: Mapping tidal residual circulations in the outer Xiangshan Bay using a numerical model. **J. Marine Syst.**, 154, 181-191.
- Bian C., X. Mao, W. Jiang, and Y. Gu, 2015: ADV-based estimates of sediment settling velocity on the shelf of the Yellow and East China seas: evidence of marked seasonal and intra-tidal variations. **Geo-Mar. Lett.**, 35(1), 53-60.
- Quan. Q., X. Mao, and W. Jiang, 2014: Numerical computation of the tidally induced Lagrangian residual current in a model bay. **Ocean Dynam.**, 64(4), 471-486

专利软件:

- [1] 实用新型专利: 赵亮, 吴则举, 毛新燕。一种多传输方式的近海可变层次拉格朗日环流观测装置 (201220163200.5)
- [2] 实用新型专利: 江文胜, 生小萱, 毛新燕。一种近海底层拉格朗日余环流观测系统 (201621051755.5)

讲授课程:

本科: 近海区域海洋学; 流体力学

研究兴趣:

近海环流及物质运输的数值与理论研究, 海洋生态环境的长期演变机制研究

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Education

09/2000-06/2004, B.S. in Marine Science, Ocean University of China

09/2004-06/2009, Ph.D. in Physical Oceanography, Ocean University of China

EMPLOYMENT

07/2009-present, Lecturer, Ocean University of China

Major PROJECTS

01/2012-12/2014, **NSFC project** “Applied of generally-nonlinear Lagrangian tidally-mean residual circulation theory on the Xiangshan Bay” (41106006), PI

01/2017/-12/2021, **NSFC project** “Comparison study on the driving mechanism of human activities and natural changes on the Yangtze river estuary and Minzhe coastal ecological structure between the past and today” (41630966), participant

01/2017-12/2020, **NSFC project** “Influence of turbulent nonlinearity on the Lagrangian residual current” (41676003), participant

01/2016-12/2019, **NSFC project** “Two-way mass transport between ECS shelf sea and Kuroshio current and its effect on the Sea of Japan and northwest Pacific” (41576010), participant

01/2017-12/2021, **National Research Program of China project** “Spatiotemporal characteristics of disastrous ocean dynamic processes and the disaster-inducing mechanism” (2016YFC1402001), participant

01/2010-08/2014, **National Basic Research Program of China (973) project** “Comprehensive analysis on the evolution mechanism of ecological environment in the Chinese shelf sea and trend forecast in the future” (2010CB428904), participant

REFEREED PUBLICATIONS

Mao X., J. Shi, L. Zhao, W. Jiang, and P. Zhang, 2017: Paleo-temperature in the Yellow Sea during the mid-Holocene estimated using a numerical model. **Cont. Shelf Res.**, doi: 10.1016/j.csr.2016.12.016.

Mao X., W. Jiang, P. Zhang, and S. Feng, 2016: Numerical study on inter-tidal transports in coastal seas. **J. Ocean Univ. China**, 15(3), 379-388.

Mao X., W. Jiang, P. Zhao, and H. Gao, 2008: A 3-D numerical study of salinity variations in the Bohai Sea during the recent years. **Cont. Shelf Res.**, 28(19), 2689-2699.

Xu P., **X. Mao**, and W. Jiang, 2016: Mapping tidal residual circulations in the outer Xiangshan Bay using a numeral model. **J. Marine Syst.**, 154, 181-191.

Bian C., **X. Mao**, W. Jiang, and Y. Gu, 2015: ADV-based estimates of sediment settling velocity on the shelf of the Yellow and East China seas: evidence of marked seasonal and intra-tidal variations. **Geo-Mar. Lett.**, 35(1), 53-60.

Quan. Q., **X. Mao**, and W. Jiang, 2014: Numerical computation of the tidally induced Lagrangian residual current in a model bay. **Ocean Dynam.**, 64(4), 471-486

patentS& copyrightS

Zhao L., Z. Wu, and **X. Mao**. National Utility Model Patent, No. 201220163200.5

Jiang W., X. Sheng, and **X. Mao**. National Utility Model Patent, No. 201621051755.5

Courses

Undergraduate: Coastal Oceanography; Fluid Dynamics

Research Interests

Numerical and theoretical studies on coastal circulation and mass transport;

Study on evolution mechanism of marine ecological environment

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