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当前位置: [首页](#) [师资队伍](#) [海洋学系](#) [教授](#)

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教育经历:

1993/09-1997/07 中国海洋大学 物理海洋学 学士

1997/09-2002/06 中国海洋大学 物理海洋学 博士

工作经历:

2002/10-2004/06 University of Miami 博士后

2004/07-2007/10 University of Miami Assistant Scientist

2007/11-2011/12 中国海洋大学 副教授

2012.01-今 中国海洋大学 教授

主要项目:

2016/09-2020/12, 国家重点研发专项“两洋一海”重要海域海洋动力环境立体观测示范系统研发与试运行”(2016YFC1402600), 3900万元, 在研, 主持。

2013/01-2016/12, 国家863计划重大项目“内波与混合精细化观测系统集成与示范”(2013AA09A502), 4394万元, 在研, 主持。

2008/08-2012/12, 国家863计划重大项目“南海深水区内波观测技术与试验系统开发”(2008AA09A402), 5651万元, 已结题, 主持。

2017/01-2017/12, 国家自然科学基金共享航次项目“南海东北部—吕宋海峡共享航次”(41649905), 540万元, 在研, 主持。

2014/01-2014/12, 国家自然科学基金共享航次项目“吕宋海峡-南海海盆科学考察实验研究”(41449905), 600万元, 已结题, 参加。

2012/01-2015/12, 国家自然科学基金面上项目“吕宋海峡深层环流的调控机制及影响因素”(41176010), 72万元, 已结题, 主持。

2014/01-2014/12, 国家自然科学基金共享航次项目“南海深部过程科学考察实验研究”(41349905), 600万元, 已结题, 参加。

2013/01-2013/12, 国家自然科学基金共享航次项目“南海东北部春季综合科学考察实验研究”(41249905), 400万元, 已结题, 参加。

2012/01-2012/12, 国家自然科学基金共享航次项目“南海海洋学综合科学考察实验研究”(41149907), 450万元, 已结题, 参加。

2011/01-2013/12, 教育部新世纪优秀人才支持计划(NCET-10-0764), 50万元, 已结题, 主持。

2008/01-2010/12, 国家自然科学基金青年项目“热带气旋下海浪的分布特征及其影响机制”(40706008), 21万元, 已结题, 主持。

代表文章:

W. Zhao, C. Zhou, J. Tian*, Q. Yang, B. Wang, L. Xie, T. Qu, 2014: Deep water circulation in the Luzon Strait. *J. Geophys. Res.*, 119(2), 790–804, doi:10.1002/2013JC009587.

X. Huang, Z. Chen, W. Zhao*, Z. Zhang, C. Zhou, Q. Yang & J. Tian, 2016: An extreme internal solitary wave event observed in the northern South China Sea. *Sci Rep.*, 6:30041, doi: 10.1038/srep30041.

Z. Sun, Z. Zhang, W. Zhao*, J. Tian, 2016: Interannual modulation of eddy kinetic energy in the northeastern South China Sea as revealed by an eddy-resolving OGCM. *Journal of Geophysical Research: Oceans*, 121, doi:10.1002/2015JC011497.

- C. Tian, Z. Deng, X. Xu, Q. Yang, **W. Zhao***, 2015: Timed Communication Buoy System: A Subsurface Mooring System for Efficient Sensor Data Recovery. *Marine Technology Society*, 49(3), 117-126.
- X. Zhao, C. Zhou, **W. Zhao***, J. Tian, X. Xu, 2016: Deepwater overflow observed by three bottom-anchored moorings in the Bashi Channel. *Deep Sea Research. Part I: Oceanographic Research Papers*, 110: 65-74.
- Z. Zhang, P. Li, L. Xu, C. Li, **W. Zhao***, J. Tian, T. Qu, 2015: Subthermocline eddies observed by rapid-sampling Argo floats in the subtropical northwestern Pacific Ocean in Spring 2014. ***Geophys. Res. Lett.***, 42(15), 6438-6445, doi:10.1002/2015GL064601
- W. Zhao***, X. Huang, J. Tian, 2012: A New Method to Estimate Phase Speed and Vertical Velocity of Internal Solitary Waves in the South China Sea. *Journal of Oceanography*, 68(5), 761-769.
- L. Wu, C. Miao, **W. Zhao***, 2013: Patterns of K1 and M2 internal tides and their seasonal variations in the northern South China Sea. *Journal of Oceanography*, 69(4), 481-494.
- X. Huang, **W. Zhao***, J. Tian, Q. Yang, 2014: Mooring observations of internal solitary waves in the deep basin west of Luzon Strait. *Acta Oceanologica Sinica*, 33(3), 82-89, doi:10.1007/s13131-014-0416-7.
- H. Liang, **W. Zhao**, D. Dai*, J. Zhang, 2014: Estimation of vertical diffusion coefficient based on a one-dimensional temperature diffusion equation with an inverse method. *Acta Oceanologica Sinica*. 33(5), 28-36, doi: 10.1007/s13131-014-0472-z.
- Q. Yang, **W. Zhao**, X. Liang, and J. Tian*, 2016: Three-Dimensional Distribution of Turbulent Mixing in the South China Sea. ***J. Phys. Oceanogr.***, 46, 769–788.
- Z. Zhang, **W. Zhao**, J. Tian*, Q. Yang, T. Qu, 2015: Spatial structure and temporal variability of the zonal flow in the Luzon Strait. ***J. Geophys. Res.***, 120(2), 759-776, doi:10.1002/2014JC010308.
- J. Dong, **W. Zhao**, H. Chen, Z. Meng, X. Shi, J. Tian*, 2015: Asymmetry of internal waves and its effects on the ecological environment observed in the northern South China Sea. *Deep Sea Research. Part I: Oceanographic Research Papers*, 98, 94-101, doi: 10.1016/j.dsr.2015.01.003.
- C. Li, Z. Zhang, **W. Zhao**, J. Tian*, 2015: Temporal variability of the current in the northeastern South China Sea revealed by 2.5-year-long moored observations. ***J. Oceanogr.***, 71(4), 361-372, doi: 10.1007/s10872-015-0295-3.

C. Zhou, **W. Zhao**, J. Tian*, Q. Yang, T. Qu, 2014: Variability of the Deep-Water Overflow in the Luzon Strait. **J. Phys. Oceanogr.**, 44(11), 2972-2986, doi:10.1175/JPO-D-14-0113.1.

Yang, Q., **W. Zhao**, M. Li, and J. Tian*, 2014: Spatial Structure of Turbulent Mixing in the Northwestern Pacific Ocean. **J. Phys. Oceanogr.**, 44, 2235–2247. doi: 10.1175/JPO-D-13-0148.1.

S. Guan, **W. Zhao**, J. Huthnance, J. Tian*, J. Wang, 2014: Observed upper ocean response to typhoon Megi (2010) in the Northern South China Sea. **J. Geophys. Res.**, 119(5), 3134-3157, doi:10.1002/2013JC009661.

Z. Zhang, **W. Zhao**, J. Tian*, X. Liang, 2013: A mesoscale eddy pair southwest of Taiwan and its influence on deep circulation. **J. Geophys. Res.**, 118(12), 6479-6494, doi:10.1002/2013JC008994.

科研奖励:

2015, 获山东省青年科技奖;

2010, 入选教育部新世纪优秀人才支持计划。

讲授课程:

本科: 海洋科学初探、海洋动力学;

研究生: Physical Oceanography。

研究兴趣:

海洋内波、深层环流、海洋仪器研发

Wei Zhao

Professor

College of Oceanic and Atmospheric Sciences

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Education

09/1993-06/1997, B.S. in Marine Science, Ocean University of China

09/1997-06/2002, Ph.D. in Physical Oceanography, Ocean University of China

EMPLOYMENT

10/2002-06/2004, Postdoctoral research, University of Miami

07/2004-10/2007, Assistant Scientist, University of Miami

11/2007-12/2011, Vice Professor, Ocean University of China

01/2012-present, Professor, Ocean University of China

Major PROJECTS

09/2016-12/2020, **the National Key Research and Development Program of China** “Development and trial operation of the 3D hydrological observation system of the Western Pacific- South China Sea- Eastern Indian Ocean” (2016YFC1402600), 39m, PI.

01/2013-12/2016, **the National High Technology Research and Development Program (863 Program)** “Integration and demonstration of Internal wave and mixing fine observation system” (2013AA09A502), 43.94m, PI.

08/2008-12/2012, **the National High Technology Research and Development Program (863 Program)** “Development of internal wave observation technique and experimental system in deep South China Sea” (2008AA09A402), 56.51m, PI.

01/2017-12/2017, **NSFC project** “Research Cruise on the Northeastern South China Sea and the Luzon Strait” (41449905), 540m, PI.

01/2014-12/2014, **NSFC project** “Research Cruise on the Luzon Strait and South China Sea Basin” (41449905), 6m, Participant.

01/2012-12/2015, **NSFC project** “The regulation mechanism and the influence factors of deep circulation in the Luzon Strait” (41176010), 720k, PI.

01/2014-12/2014, **NSFC project** “Study on deep process of the South China Sea” (41349905), 6m, Participant.

01/2013-12/2013, **NSFC project** “A comprehensive survey at the northeastern South China Sea” (41249905), 4m, Participant.

01/2012-12/2012, **NSFC project** “A comprehensive survey of oceanography at the South China Sea” (41149907), 4.5m, Participant.

01/2011-12/2013, Talent project from Education Ministry (NCET-10-0764), 500k, PI.

01/2008-12/2010, **NSFC project** “The distribution characteristics and influence mechanism of ocean waves under tropical cyclone” (40706008), 210k, PI.

REFEREED PUBLICATIONS

- W. Zhao, C. Zhou, J. Tian*, Q. Yang, B. Wang, L. Xie, T. Qu, 2014: Deep water circulation in the Luzon Strait. **J. Geophys. Res.**, 119(2), 790–804, doi:10.1002/2013JC009587.
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- C. Tian, Z. Deng, X. Xu, Q. Yang, W. Zhao*, 2015: Timed Communication Buoy System: A Subsurface Mooring System for Efficient Sensor Data Recovery. *Marine Technology Society*, 49(3), 117-126.
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- Q. Yang, W. Zhao, X. Liang, and J. Tian*, 2016: Three-Dimensional Distribution of Turbulent Mixing in the South China Sea. **J. Phys. Oceanogr.**, 46, 769–788.

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- C. Li, Z. Zhang, **W. Zhao**, J. Tian*, 2015: Temporal variability of the current in the northeastern South China Sea revealed by 2.5-year-long moored observations. **J. Oceanogr.**, 71(4), 361-372, doi: 10.1007/s10872-015-0295-3.
- C. Zhou, **W. Zhao**, J. Tian*, Q. Yang, T. Qu, 2014: Variability of the Deep-Water Overflow in the Luzon Strait. **J. Phys. Oceanogr.**, 44(11), 2972-2986, doi:10.1175/JPO-D-14-0113.1.
- Yang, Q., **W. Zhao**, M. Li, and J. Tian*, 2014: Spatial Structure of Turbulent Mixing in the Northwestern Pacific Ocean. **J. Phys. Oceanogr.**, 44, 2235–2247. doi: 10.1175/JPO-D-13-0148.1.
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- Z. Zhang, **W. Zhao**, J. Tian*, X. Liang, 2013: A mesoscale eddy pair southwest of Taiwan and its influence on deep circulation. **J. Geophys. Res.**, 118(12), 6479-6494, doi:10.1002/2013JC008994.

Awards

2015, Shandong Province Youth Science and Technology Award

2010, Talent project from Education Ministry

Courses

Undergraduate: Marine Science, Ocean Dynamics

Graduate: Physical Oceanography

Research Interests

Internal wave, deep-ocean circulation, and development of oceanic instrument

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