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研究方向 大洋环流动力学、中尺度涡、数值模式

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个人简介

长期从事大洋环流动力学研究, 关注的问题是热带西太平洋环流动力过程、海洋中尺度涡。系统揭示海洋风场对西太平洋北赤道流分叉季节 - 年代际变异中的作用, 取得了大尺度环流多尺度变异规律; 指出了西太平洋季节内变异可能机制, 包括不同路径的中尺度涡活动、大气季节内风场强迫、上升流及 Rossby 波海盆本征模等, 丰富了海洋动力学认识; 揭示了菲律宾区域中尺度涡及其在海洋混合的贡献。主持完成国家重点研发计划课题、国家自然科学基金项目、中国科学院先导专项子课题等国家级和院级项目, 在国内外发表论文 60 余篇, 获中国科学院科技成就奖、海洋工程科学技术奖。

教育背景

2002.09 - 2006.06	中国科学院海洋研究所	物理海洋学	理学博士
1999.09 - 2002.06	青岛海洋大学	物理海洋学	理学硕士
1995.09 - 1999.06	青岛海洋大学	海洋学	理学学士

工作经历

2015.12 - 至今	中国科学院海洋研究所	研究员
2011.09 - 2015.11	中国科学院海洋研究所	副研究员
2009.12 - 2011.08	广东海洋大学	副教授
2006.07 - 2009.11	广东海洋大学	讲师

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)

博士招生：海洋环流与气候环境变化

硕士招生：海洋环流与气候环境效应 / 环境工程

论文著作

- [1] Yuan X, **Wang Q***, Ma J, Hu S, Hu D (2023) Intraseasonal variability of the Kuroshio observed via mooring at 18°N. *Journal of Oceanology and Limnology*, <https://doi.org/10.1007/s00343-023-2334-z>
- [2] Cao M, **Wang Q*** (2022) Observed near-inertial waves and shears east of Luzon during Typhoons Mangkhut and Yutu in 2018. *Deep-Sea Research, Part II*, 205: 105185. <https://doi.org/10.1016/j.dsr2.2022.105185>
- [3] **Wang Q***, Pang C, Dong C (2022) Role of subthermocline processes in the isopycnal mixing associated with subthermocline eddies in the Philippine Sea. *Deep-Sea Research, Part II*, 202: 105148. <https://doi.org/10.1016/j.dsr2.2022.105148>
- [4] **Wang Q***, Yuan X, Hu D, Sasaki H (2021) Stronger intraseasonal variability observed below the seasonal thermocline in the Kuroshio east of Taiwan during 2014 and 2015. *Journal of Geophysical Research: Oceans*, 126, e2021JC017194. <https://doi.org/10.1029/2021JC017194>
- [5] Yuan X, **Wang Q***, Feng J, Hu D* (2021), The North Equatorial Current/Undercurrent volume transport and its 40-day variability from a mooring array along 130°E. *Journal of Oceanology and Limnology*, 39(6), 2127-2143. <https://doi.org/10.1007/s00343-020-0289-x>
- [6] **Wang Q*** (2020) The identified 30-50-day variation in the subthermocline current east of Mindanao. *Journal of Oceanology and Limnology*, 38(5), 1354-1367. <https://doi.org/10.1007/s00343-020-0021-x>
- [7] **Wang Q***, Wang F, Feng J, Hu S, Zhang L, Jia F, Hu D (2019) The Equatorial Undercurrent and its origin in the region between Mindanao and New Guinea, *Journal of Geophysical Research: Oceans*, 124, 2313–2330. <https://doi.org/10.1029/2018JC014842>
- [8] **Wang Q*** (2017) Three-dimensional structure of mesoscale eddies in western tropical Pacific as revealed by a high-resolution ocean simulation. *Science China Earth Sciences*, 60(9), 1719–1731, <https://doi.org/10.1007/s11430-016-9072-y>
- [9] Sun H, **Wang Q*** (2016), Microstructure observations in the upper layer of the South China Sea. *Journal of Oceanography*, 72(5), 777–786, <https://doi.org/10.1007/s10872-016-0371-3>
- [10] **Wang Q***, Zhai F, Wang F, Hu D (2014b) Intraseasonal Variability of the subthermocline current east of Mindanao. *Journal of Geophysical Research: Oceans*, 119, 8552–8566, <https://doi.org/10.1002/2014JC010343>

- [11] **Wang Q***, Zhai F, Hu D (2014a) Variations of Luzon Undercurrent from observations and numerical model simulations. *Journal of Geophysical Research: Oceans*, 119, 3792–3805, <https://doi.org/10.1002/2013JC009694>
- [12] **Wang Q***, Wang X, Xie L, Shang Q, Lü Y (2014) Observed water current and transport through Qiongzhou Strait during August 2010. *Chinese Journal of Oceanology and Limnology*, 32(3), 703–708, <https://doi.org/10.1007/s00343-014-3159-6>
- [13] **Wang Q**, Hu D* (2012) Origin of the Luzon Undercurrent. *Bulletin of Marine Science*, 88(1): 51–60, <https://doi.org/10.5343/bms.2011.1020>
- [14] **Wang Q***, Cui H, Zhang S, Hu D (2009) Water transports through the four main straits around the South China Sea. *Chinese Journal of Oceanology and Limnology*, 27(2), 229–236, <https://doi.org/10.1007/s00343-009-9142-y>
- [15] **Wang Q***, Cao R, Zhang S, Hu D (2009) Bifurcation of Pacific North Equatorial Current at the surface. *Science China Earth Sciences*, 52(2), 227–231, <https://doi.org/10.1007/s11430-009-0020-4>
- [16] **Wang Q**, Hu D* (2006) Bifurcation of the North Equatorial Current derived from altimetry in the Pacific Ocean. *Journal of Hydrodynamics*, 18(5), 620–626. [https://doi.org/10.1016/S1001-6058\(06\)60144-3](https://doi.org/10.1016/S1001-6058(06)60144-3)

项目课题

1. 国家自然科学基金 面上项目, “热带西太平洋中尺度过程的关键控制因子” (项目编号: 41976011), 2020.01-2023.12, **主持**
2. 科技部重点研发项目课题, “研发海洋内部及过渡区关键物理过程的参数化方案” (课题编号: 2017YFA0604102), 2017.07-2022.06, **主持**
3. 国家自然科学基金 面上项目, “菲律宾附近西边界流季节内变异特征与驱动机制” (项目编号: 41576014), 2016.01-2019.12, **主持**
4. 科技部 973 课题, “黑潮多尺度变异与机理” (课题编号: 2013CB956202), 2013.01-2017.08, **参与**
5. 中国科学院战略性科技先导专项子课题, “西太平洋主流系暖池综合观测实验” 2013.01-2014.12, **主持**
6. 国家自然科学基金 青年项目, “夏季琼州海峡的流量研究” (项目编号: 40806012), 2009.01-2011.12, **主持**

荣誉奖励

- 2019 海洋工程科学技术奖, “西太平洋实时科学观测网的建设运行和数据应用”, 排名第 13

2017

中国科学院杰出科技成就奖, “热带太平洋西边界流研究集体”, 排名第 6