

# **Dr. Lingling Xie**

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## **Education:**

Sept. 2004– July 2009 Ph. D. of Physical Oceanography, Ocean University of China

Sept. 2001 – July 2004 Bachelor of Marine Science, Ocean University of China

Oct. 2007 –Apr. 2008 Visiting student in National Oceanography Center, Southampton (NOCS), UK (Host Professor: Brian A. King)

Apr. 2006 – June 2006 Visiting student in International Pacific Research Center (IPRC), Hawaii, USA (Host Professor: Tangdong Qu)

## **Work Experience:**

July 2009 – present Lecture/Associate Professor/Professor, Department of Marine Science, College of Oceanography and Meteorology, Guangdong Ocean University

June 2015 – Aug. 2017 Visiting Associate Professor in Department of Atmospheric and Oceanic Science (AOSC), University of Maryland, College Park, Maryland, USA (Host Professor: Quanan Zheng)

## **Major Honors and Awards:**

‘Pearl River’ Young Scholar of Guangdong Province, 2016.

Excellent Young Teacher of Guangdong High Education, 2015.

## **Research Interests:**

Physical oceanography, ocean circulation, mesoscale and submesoscale dynamics, ocean mixing, and interaction of multi-scale processes.

## **Publications:**

- Xie L.** and M. Li (2019): Response of coastal upwelling east of Hainan Island in the South China Sea to sudden impact and long-term variability of atmospheric forcing, In book: Estuaries and Coastal Zones - Dynamics and Response to Environmental Changes, DOI: 10.5772/intechopen.88828
- Xie L.**, Q. Zheng, J. Li, M. Li and C-R. Ho (2019): Responses of the South China Sea to Mesoscale Disturbances from the Pacific, In book: Regional Oceanography of the South China Sea. In press
- Li M. and **L. Xie** (2019): Diapycnal mixing and vertical circulation on the continental shelf of northern South China Sea, In book: Regional Oceanography of the South China Sea. In press
- Hu J., C-R. Ho, **L. Xie** and Q. Zheng (2019): Regional Oceanography of the South China Sea, ISBN: 978-981-12-0690-0, DOI: 10.1142/11461. In press
- Zheng Q., **L. Xie\***, X. Xiong, X. Hu and L. Chen (2019): Progress in research of submesoscale processes in the South China Sea, *Acta Oceanologica Sinica*. accepted
- Xu Y., J. Liu, **L. Xie\***, C. Sun, J. Liu, J. Li and D. Xian (2019): China-France Oceanography Satellite (CFOSAT) simultaneously observes the typhoon-induced wind and wave fields, *Acta Oceanologica Sinica*, 38(11), 158–161.
- Shi Y., **L. Xie\***, Q. Zheng, S. Zhang, M. Li, J. Li (2019): Unusual coastal ocean cooling in the northern South China Sea by a katabatic cold jet associated with typhoon Mujigae (2015), *Acta Oceanologica Sinica*, 38(5), 62-75.
- Wang L., L. Zhou, **L. Xie\***, Q. Zheng, Q. Li, M. Li (2019): Seasonal and interannual variability of water mass sources of Indonesia Throughflow in the Maluku Sea and the Halmahera Sea, *Acta Oceanologica Sinica*, 38(4), 58-71.
- Zheng Q., C-R. Ho, **L. Xie\*** and M. Li (2019): A case study of a Kuroshio main path cut-off event and impacts on the South China Sea in fall-winter 2013-2014, *Acta Oceanologica Sinica*, 38(4), 12-19.
- Shen Y., Z. Jing, K. Tan and **L. Xie\*** (2019): Comparison of the responses of the Qiongdong upwelling and the Vietnam coastal upwelling to super El Niño events, *Advance in Marine Science*, 37(3), 374-386. (in Chinese with English abstract)
- Bai P., J. Yang, S. Zhang, **L. Xie** and J. Wu (2019): Upwelling off the west coast of Hainan Island: sensitivity to wave-mixing. *Acta Oceanologica Sinica*, 38(11), 11–19.
- Xie L.**, Q. Zheng, S. Zhang, J. Hu, M. Li, J. Li and Y. Xu (2018): The Rossby normal modes in the South China Sea deep basin evidenced by satellite altimetry, *International Journal of Remote Sensing*, 39(2), 399-417.
- Li M., **L. Xie\***, S. Zhang, L. Zhou, J. Li (2018): The cruise observation of turbulent mixing in the upwelling region east of Hainan Island in the summer of 2012, *Acta Oceanologica Sinica*, 37(9), 1-12. (in Chinese with English abstract)

- Yu J., Q. Zheng, Z. Jing, Y. Qi, S. Zhang and **L. Xie** (2018): Satellite observations of sub-mesoscale vortex trains in the western boundary of the South China Sea, *Journal of Marine Systems*, 183, 56-62.
- Wang L., **L. Xie\***, L. Zhou, Q. Li, Y. Shi and M. Li (2018): Climatological analysis of water mass sources of Indonesia Throughflow in the Molukka Sea and Halmahera Sea, *Haiyang Xuebao*, 40(3), 1-15.
- Tan K., B. Zhang and **L. Xie\*** (2018): Ocean wave parameter retrieval from satellite SAR with EMD method, *Journal of Guangdong Ocean University*, 38(4), 77-84. (in Chinese with English abstract)
- Zheng M., M. Li, **L. Xie**, Y. Hong, Y. He and X. Zong (2018): Observation of hydrographic characteristics of northwestern shelf of the South China Sea in winter 2012, *Oceanologia et Limnologia Sinica*, 49(4), 734-745. (in Chinese with English abstract)
- Wang L., J. Li, **L. Xie**, F. Chen, L. Wang, Y. Shi and M. Zheng (2018): Analysis of hydrological characteristics for Huguangyan Maar Lake with cruise data in Winter and Spring, *Journal of Guangdong Ocean University*, 38(1), 63-72. (in Chinese with English abstract)
- Xie L.**, P-S. Enric, Q. Zheng, S. Zhang, X. Zong, X. Yi and M. Li (2017): Diagnosis of 3-D vertical circulation in the upwelling and frontal zones east of Hainan Island, China, *Journal of Physical Oceanography*, 47(4), 755-774.
- Xie L.**, Q. Zheng, S. Zhang, J. Hu, M. Li, J. Li and Y. Xu (2017): The Rossby normal modes in the South China Sea deep basin evidenced by satellite altimetry, *International Journal of Remote Sensing*, 39(2), 399-417.
- Xie L.** and Q. Zheng (2017): New insight to the South China Sea: Rossby normal modes, *Acta Oceanologica Sinica*, 36(7), 1-3.
- Zheng Q., **L. Xie\***, Z-W. Zheng and J. Hu (2017): Progress in research of mesoscale eddies in the South China Sea, *Advance in Marine Science*, 35(20), 131-158.
- Xie L.** and X. Ye (2017): Ocean sub-mesoscale dynamics research benefiting from novel Radar imaging technologies, *Oceanography & Fisheries Open Access Journal*, J 4(3), OFOAJ.MS.ID.555637.
- Wang L., **L. Xie\***, L. Zhou, Q. Li, Y. Shi and M. Li (2017): Climatological analysis of water mass sources of Indonesia Through flow in the Molukka sea and Halmahera Sea, *Haiyang Xuebao*, 40(3), 1-15.
- Shi Y., **L. Xie\***, M. Li, L. Wang, M. Zheng and Y. Shen (2017): Impacts of typhoon Mujigae on sea surface temperature and Chlorophyll-a concentration in the coastal ocean of western Guangdong, *Journal of Guangdong Ocean University*, 37(3), 49-56. (in Chinese with English abstract)
- Xie L.**, Q. Zheng, J. Tian, S. Zhang, Y. Feng and X. Yi (2016): Rossby waves with finite wavelengths propagating from the Pacific to the SCS, *Journal of Physical Oceanography*, 46(10), 2897-2913.
- Li J., Q. Zheng, J. Hu, **L. Xie**, J. Zhu and Z. Fan (2016): A case study of winter storm-induced continental shelf waves in the northern South China Sea in winter 2009, *Continental shelf Research*, 125, 127-135.
- Xie L.**, X. Zong, X. Yi and M. Li (2016): The interannual variation and long-term trend of Qiongdong upwelling, *Oceanologia et Limnologia Sinica*, 47(1), 43-51. (in Chinese with English abstract)

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- Zheng Q. and **L. Xie** (2016): Progress in research of Satellite SAR detection of sea bottom topography, *Advances in Marine Science*, 34(2), 147-161. (in Chinese with English abstract)
- Chen F., Z. Zeng, Y. Meng, Q. Zhu, **L. Xie**, S. Zhang, Q. Chen and J. Chen (2016): Diel variation of nutrients and chlorophyll a concentration in the Qiongdong sea region during the summer of 2013. *Haiyang Xuebao*, 38(4), 76-83.
- Xie L.**, M. Li and M. Li (2015): Observational analysis of double diffusion convection in the deep Canada Basin, *Acta Oceanologica Sinica*, 34(11), 71-79.
- Xie L.**, Q. Chen, J. Hu\*, S. Zhang, X. Yi, F. Chen, X. Deng, R. Deng, J. Wang and Y. Qi (2015): 3-D observations of a red tide event in the offshore water along the western Guangdong coast, *Acta Oceanologic Sinica*, 34(1), 159-161.
- Jing, Z., Y. Qi, Y. Du, S. Zhang and **L. Xie** (2015), Summer upwelling and thermal fronts in the northwestern South China Sea: Observational analysis of two mesoscale mapping surveys, *Journal of Geophysical Research*, 120, 1993–2006.
- Zhang S., **L. Xie\***, Y. Hou, H. Zhao, Y. Qi and X. Yi (2014): Tropical storm-induced turbulent mixing and chlorophyll-a enhancement in the continental shelf southeast of Hainan Island, *Journal of Marine Systems*, 129, 405-414.
- Li M., **L. Xie\***, Q. Yang and J. Tian (2014): Impact of eddies on ocean diapycnal mixing in Gulf Stream region, *Science China*, 57(6), 1407-1414.
- Zhang S., **L. Xie**, H. Zhao and Y. Hou (2014): Tropical storm-forced near-inertial energy dissipation in the southeast continental shelf region of Hainan Island, *Science China*, 57(8), 1879-1884.
- Zhao W., C. Zhou, J. Tian\*, Q. Yang, B. Wang, **L. Xie** and T. Qu (2014), Deep water circulation in the Luzon Strait, *Journal of Geophysical Research*, 119(2), 790-804.
- Wang Q., W. Wang, **L. Xie**, Q. Shang, and Y. Lu, (2014): Observed water current and transport through Qiongzhou Strait during August 2010, *Chinese Journal of Oceanology and Limnology*, 32(3), 704 - 408.
- Zhu F., **L. Xie** and Y. Cheng (2014): Distribution and seasonal variations of temperature front in the South China Sea, *Oceanologica et Limnologia Sinica*, 45(4), 695-702. (in Chinese with English abstract)
- Yang Q., J. Tian, W. Zhao and **L. Xie** (2013): Turbulent dissipation and mixing in Prydz Bay, *Chinese Journal of Oceanology and Limnology*, 31(2), 445-453.
- Xie L.**, X. Guo, Y. Zhang and J. Kang (2013): Reference Velocity from Bottom Track in LADCP Data Processing, *Ocean Technology*, 32(1), 1-5. (in Chinese with English abstract)
- Zhang S., **L. Xie\***, R. Cao and H. Zhao (2012): Observation of upper-ocean mixing in the region west of the Luzon Strait in Spring, *Journal of Coastal Research*, 28(5), 1208-1213.
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- Xie L.**, S. Zhang, H. Zhao\* (2012): Overview of studies on Qiongdong Upwelling, *Journal of Tropic oceanography*, 31(4), 35-41. (in Chinese with English abstract)
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with English abstract)

Zhu F. and **L. Xie\*** (2012): Characteristics of vertical and sectional distribution of sound velocity in the northwestern South China Sea, *Journal of Guangdong Ocean University*, 32(4), 59-62. (in Chinese with English abstract)

**Xie L.\***, J. Tian, S. Zhang, Y. Zhang and Q. Yang (2011): An anticyclonic eddy in the intermediate layer of the Luzon Strait in Autumn 2005, *Journal of Oceanography*, 67(1), 37-46.

**Xie L.\***, J. Tian, D. Hu and F. Wang (2009): A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific: I. Water mass distribution, *Chinese Journal of Oceanology and Limnology*, 27(3), 630-639.

**Xie L.\***, J. Tian, D. Hu and F. Wang (2009): A quasi-synoptic interpretation of water mass distribution and circulation in the western North Pacific: II Circulation, *Chinese Journal of Oceanology and Limnology*, 27(4), 955-965.

**Xie L.**, X. Xiong\*, Q. Yang and Y. Zhang (2009): Parameters setting of the configure file and data processing for LADCP, *Ocean Technology*, 28(1), 19-23. (in Chinese with English abstract)

Tian J., Q. Yang, X. Liang, **L. Xie**, D. Hu, F. Wang and T. Qu (2006): Observation of Luzon Strait transport, *Geophysic Research Letter*, 33, L19607. doi:10.1029/2006GL026272.

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