

Quanan Zheng

Senior Research Scientist
Department of Atmospheric and Oceanic Science
University of Maryland, College Park, MD 20742
Tel:301-405-8253 Fax:301-314-9482
Email: gzheng2@umd.edu
<http://www.atmos.umd.edu/~quanan>

RESEARCH INTERESTS

Ocean remote sensing (including physics, data interpretation, applications, and laboratory simulation), ocean surface processes (including wind friction, wave spectra, skin layer physics, and surfactant effects), upper ocean dynamics (including internal wave dynamics and ocean-atmospheric coupling), meso-scale ocean dynamics, solitary waves in the atmosphere and ocean, and space shuttle photographic applications.

MAJOR HONORS AND AWARDS

- 1986 Science and Technology Progress Award of State Oceanic Administration, P. R. China, Application Study of Remote Sensing Technology to Investigation of Coastal Zone and Tidal Flat. First class
- 1986 Science and Technology Progress Award of State Oceanic Administration, P. R. China, A Study of Techniques for Monitoring Oil Spelling on the Sea Surface Using Airborne Remote Sensing. First class
- 1987 State Science and Technology Progress Award of the P. R. China, Development and Research of Remote Sensing Technology to Investigation of Coastal Zone and Tidal Flat. Second class
- 1991 Science and Technology Progress Award of State Oceanic Administration, P. R. China, Remote Sensing Study of Jiaozhou Bay. First class
- 1991 Government Special Allowance Award of the State Council of the P. R. China
- 1991 Model Worker Award of Qingdao City Government
- 1992 Science and Technology Progress Award of State Oceanic Administration, P. R. China, A Study of Spectral and Signature Features of Ocean Environmental Elements. First class

SOCIAL ACTIVITIES / HONORS

- 2008-present First Chair Consultant for Ocean Remote Sensing Development, Institute of Remote Sensing Applications (IRSA), Chinese Academy of Sciences (CAS).
- 2006-present Guest Chair Professor, Xiamen University, Xiamen, China.
- 2006-2007 President of Chinese-American Oceanic and Atmospheric Association (COAA)

2006-2007 Visiting Professor, The Chinese University of Hong Kong (CUHK).
2005-2006 Guest Chair Senior Research Scientist, The Third Institute of Oceanography,
State Oceanic Administration, China
2004-present The Honorary Professor of the Institute, The First Institute of Oceanography,
State Oceanic Administration, China
1995-2004 Guest Senior Research Scientist, The First Institute of Oceanography, State
Oceanic Administration, China
1998-2000 Guest Chair Senior Research Scientist, Oceanology Institute of Chinese
Academy of Sciences
1998-2000 Guest Chair Professor, Ocean University of China
1988-1991
Guest Senior Research Scientist, Academy of Guangxi, China

1988-1991

Guest Senior Research Scientist, Geographic Institute of Changchun, CAS

1986-1991 Guest Professor, Center for Remote Sensing of Shandong Province, China

INTERNATIONAL CONFERENCE

2007 Executive Chairman, The Eighth International Ocean Forum, Qingdao, China
2004 Co-Chair of Program Committee, Third International Ocean-Atmosphere
Conference, Beijing, China
2000 One of Organizers, International Ocean Remote Sensing Workshop, Hong Kong,
China
1997 Chair of Program Committee, China-US Ocean Remote Sensing Workshop, Beijing,
China
1989 Co-Chair of Program Committee, Asia-Pacific Seminar on Remote Sensing
Applications to Marine Fishery, Beijing, China
1988 Co-Chair of Program Committee, International Symposium of Coastal Zone
Development and Management, Beijing, China
1984 Panel Chairman, UNDP Asia-Pacific Microwave Remote Sensing Workshop,
Bangkok, Thailand

PUBLICATIONS

Papers in Peer-review Journals

1. **Zheng, Q.**, D. Xue, and G. Zhang. A review of remote sensing oceanography, in A
Collection of Remote Sensing Oceanographic Papers, Ocean Press, Beijing, pp. 1-8, 1980.

2. **Zheng, Q.** A preliminary study of penetration depth in sea water by visible remote sensing, in A Collection of Remote Sensing Oceanographic Papers, Ocean Press, Beijing, pp. 9-18, 1980.
3. **Zheng, Q.** Applications of remote sensing technology to monitor marine oil pollution, in A Collection of Remote Sensing Oceanographic Papers, Ocean Press, Beijing, pp. 50-58, 1980.
4. **Zheng, Q.** Application of meteorological satellite images to oceanography, in A Collection of Remote Sensing Oceanographic Papers, Ocean Press, Beijing, pp. 59-70, 1980.
5. **Zheng, Q.** An introduction to oceanic microwave remote sensing, in A Collection of Remote Sensing Oceanographic Papers, Ocean Press, Beijing, pp. 71-100, 1980.
6. **Zheng, Q.** Applications of remote sensing to the studies of the oceanic mesoscale eddies and case interpretations of satellite images. *Acta Oceanologica Sinica*, 2,342-357, 1980.
7. **Zheng, Q.**, Y. Sun, Y. Wu, and Y. Yu. Analyses of results of pollution monitoring by using airborne remote sensing in the Jiaozhou Bay. *Transactions of Oceanology and Limnology*, 4, 55-63, 1981.
8. **Zheng, Q.** The winter sea surface temperature patterns of the Yellow Sea and the East China sea derived from GMS-1 and NOAA-5 IR images. *Acta Oceanologica Sinica*, 3, 523-534, 1981.
9. Sun, Y. and **Q. Zheng**. Preliminary application of 3 cm microwave scan-imaging radiometer to remote sensing oceanography. *Acta Oceanologica Sinica*, 3, 400-409, 1981.
10. **Zheng, Q.** and V. Klemas. Determination of winter temperature patterns, fronts, surface currents in the Yellow Sea and East China Sea from satellite imagery. *Rem. Sens. Environ.*, 12, 201-218, 1982.
11. **Zheng, Q.**, V. Klemas, G. Hayne, and N. E. Huang. The effect of oceanic whitecaps and foams on pulselimited radar altimeters. *J. Geophys. Res.*, 88, 2571-2578, 1983.
12. **Zheng, Q.**, V. Klemas, and Y.-H. L. Hsu. Laboratory measurement of water surface bubble life time. *J. Geophys. Res.*, 88, 701-706, 1983.
13. **Zheng, Q.** Applications of IR remote sensing to large scale oceanic dynamics. *Journal of Oceanography of Huanghai and Bohai Seas*, 1, 91-99, 1983.
14. **Zheng, Q.**, Y. Sun, Y. Shi, and Y. Sun. Studies on method for monitoring oil spill on the sea surface by airborne remote sensing. *Acta Oceanologica Sinica*, 6, 531-541, 1984.
15. Huang, E. and **Q. Zheng**. Remote sensing technology for wave measurement. *Marine Science Bulletin*, 3, 80-89, 1984.

16. Huang, N. E., C. L. Parsons, S. R. Long, L. F. Bliven, and **Q. Zheng**. A new type of overshoot phenomenon in wind wave development and its implication in remote sensing of the ocean. *J. Geophys. Res.*, 89, 3679-3687, 1984.
17. **Zheng, Q.**, V. Klemas, and N. E. Huang. The dynamics of the slope water off New England and its influence on the Gulf Stream as inferred from satellite IR data. *Rem. Sens. Environ.*, 15, 135-153, 1984.
18. **Zheng, Q.**, N. E. Huang, and V. Klemas. Satellite observations and study on occurrence mechanism of the shear waves along the Gulf Stream north wall. *Oceanologia et Limnologia Sinica*, 16, 1-9, 1985.
19. **Zheng, Q.**, J. Yang, and N. Li. Remote sensing monitoring of marine environment of the Bohai Bay, in *A Paper Collection of Remote Sensing of Environment for Tianjin-Bohai Bay Area*, Science Press, Beijing, pp. 163-167, 1985.
20. **Zheng, Q.**, Y. Sun, Y. Sun, C. Xu, Y. Shi, and H. Ma. Analyses of airborne remote sensing monitoring data for marine environment in the Bohai Bay. *Journal of Oceanography of Huanghai and Bohai Seas*, 3, 63-69, 1985.
21. **Zheng, Q.**, Y. Sun, D. Qin, and Y. Shi. Monitoring marine oil pollution by airborne remote sensing. in *Development and Applications of Remote Sensing for Planning, Management and Decision-Making*, UNDP ESCAP, Bangkok, pp. 146-148, 1985.
22. **Zheng, Q.**, Y. Sun, C. Xu, X. Teng, G. Yang, and R. Zhao. Studies on effects of nonlinear features of capillary-gravity wave spectra on microwave emissivity of sea surface. *Science in China (series A)*, 29, 745-754, 1986.
23. **Zheng, Q.** and Y. Yuan. Intermediate scale wave motion in shallow water shear current. *J. Geophys. Res.*, 91, 3959-3965, 1986.
24. **Zheng, Q.**, Y. Sun, A. Pang, and D. Zhang. Laboratory measurements and physical mechanism studies of microwave emissivity of oil film on water surface. *Acta Oceanologica Sinica*, 10, 757-763, 1988.
25. **Zheng, Q.**, L. Wu, D. Zhang, and X. Li. A study on SLAR image signatures of internal waves in the sea area nearby the Laoshan Bay. *Oceanologia et Limnologia Sinica*, 20, 281-287, 1989.
26. **Zheng, Q.** and Y. Yuan. A study on analytical model of decay of mesoscale eddies on the continental shelf. *Science in China (series B)*, 32, 1135-1143, 1989.
27. **Zheng, Q.** and Y. Yuan. Study on dynamics of shear waves - I. Scale analysis and dispersion relation. *Acta Oceanologica Sinica*, 8, 161-170, 1989.

28. Yuan, Y. and **Q. Zheng**. Study on dynamics of shear waves - II. Triggering mechanism and amplitude decay. *Acta Oceanologica Sinica*, 8, 171-178, 1989.
29. Zheng, Q., Y. Yuan, and X. Zheng. Remote sensing and dynamical studies of typical meso-scale phenomena in the Kuroshio current system, in J. Su (ed.), *Selected Papers of the Kuroshio Investigation I*, Ocean Press, Beijing, pp. 313-323, 1990.
30. **Zheng, Q.**, and S. Xiu. Studies on satellite remote sensing data of the Kuroshio current system I. Dynamics of meso-scale processes of the Kuroshio in the East China Sea in spring, in J. Su (ed.), *Selected Papers of the Kuroshio Investigation III*, Ocean Press, Beijing, 1991.
31. **Zheng, Q.**, L. Wu, X. Zhang, Y. Sun, J. Pan, and H. Xu. A remote sensing study of Jiaozhou Bay I. Measurement of total area and coastal line. *Oceanologia et Limnologia Sinica*, 22, 193-198, 1991.
32. **Zheng, Q.**, L. Wu, M. Dai, J. Pan, and Y. Ji. A remote sensing study of Jiaozhou Bay II. Calculation of dynamical parameters. *Oceanologia et Limnologia Sinica*, 23, 1-6, 1992.
33. Yuan, Y., **Q. Zheng**, J. Zou, and Z. Pan. The variation and movement of a kind of eddies in shelf slope water. *Science in China (B)*, 35, 1015-1024, 1992.
34. Yan, X.-H., C.-R. Ho, **Q. Zheng**, and V. Klemas. Temperature and size variabilities of the Western Pacific Warm Pool. *Science*, 258, 1643-1645, 1992.
35. **Zheng, Q.**, D. Zhang, and J. Pan. A study on remote sensing models of sea ice thickness by microwave radiometry. *Acta Oceanologica Sinica*, 12, 197-206, 1993.
36. Yan, X.-H., C.-R. Ho, **Q. Zheng**, and V. Klemas. Using satellite infrared data in studies of variabilities of the Western Pacific Warm Pool. *Science*, 262, 440-441, 1993.
37. **Zheng, Q.**, X.H. Yan, and V. Klemas. Derivation of Delaware Bay tidal parameters from space shuttle photographs. *Rem. Sens. Environ.*, 45, 51-59, 1993.
38. **Zheng, Q.**, X.-H. Yan, and V. Klemas. Statistical and dynamical analysis of internal waves on the continental shelf of the Middle Atlantic Bight from space shuttle photographs. *J. Geophys. Res.*, 98, 8495-8504, 1993.
39. **Zheng, Q.**, X.-H. Yan, C.-R. Ho, V. Klemas, R.E. Cheney, and C.-K. Tai. Correlation of sea level anomaly amplitude modulation with El Nino events in equatorial Pacific. *EOS*, 75, 295-299, 1994.
40. **Zheng, Q.**, X.-H. Yan, C.-R. Ho, and C.-K. Tai. The effects of shear flow on propagation of Rossby waves in the equatorial oceans. *J. Phys. Oceanogr.*, 24, 1680-1686, 1994.

41. Yan, X.-H., **Q. Zheng**, C.-R. Ho, C.-K. Tai, and R. E. Cheney. Development of the pattern recognition and the spatial integration filtering methods for analyzing satellite altimeter data. *Rem. Sens. Environ.*, 48, 147-158, 1994.
42. Wu, Y., **Q. Zheng**, Y. Ji, A. Pang, S. Lou, and W. Hou. Laboratory simulation of thermal structure of water surface skin layer. *Acta Oceanologia Sinica*, 16, 55-62, 1994.
43. **Zheng, Q.**, V. Klemas, and X.-H. Yan. Dynamic interpretation of space shuttle photographs: deepwater internal waves in the western equatorial Indian Ocean. *J. Geophys. Res.*, 100, 2579-2589, 1995.
44. **Zheng, Q.**, X.-H. Yan, C.-R. Ho, and C.-K. Tai. Observation of equatorially trapped waves in the Pacific using Geosat altimeter data. *Deep-Sea Res.*, 42, 797-817, 1995.
45. **Zheng, Q.**, X.-H. Yan, N. E. Huang, V. Klemas, J. Pan, and Y. Yuan. Laboratory measurements of the effects of viscosity on short water wave spectra and implication for radar remote sensing of the ocean surface. *Chinese Journal of Oceanology and Limnology*, 13, 193-205, 1995.
46. Ho, C.-R., X.-H. Yan, and **Q. Zheng**. Satellite observation of upper-layer variabilities in the Western Pacific Warm Pool. *Bull. Amer. Meteor. Soc.*, 76, 669-679, 1995.
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48. **Zheng, Q.**, X.-H. Yan, N. E. Huang, V. Klemas, and J. Pan. The effects of water temperature on radar scattering from the ocean surface. *Global Atmosphere and Ocean System*, 5, 273-294, 1997.
49. **Zheng, Q.**, V. Klemas, X.-H. Yan, Z. Wang, and K. Kagleder. Digital orthorectification of space shuttle coastal ocean photographs. *Int. J. Rem. Sens.*, 18, 197-211, 1997.
50. **Zheng, Q.**, X.-H. Yan, W. T. Liu, and W. Tang. Seasonal and interannual variability of atmospheric convergence zones in the tropical Pacific observed with ERS-1 scatterometer. *Geophys. Res. Lett.*, 24, 261-263, 1997.
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52. **Zheng, Q.**, X.-H. Yan, W. T. Liu, Vic Klemas, D. Greger, and Z. Wang. A solitary wave packet in the atmosphere observed from space. *Geophys. Res. Lett.* , 25, 3559-3562, 1998.
53. **Zheng, Q.**, R. D. Susanto, X.-H. Yan, W. T. Liu, and C.-R. Ho. Observation of equatorial Kelvin solitary wave in the Pacific using TOPEX/POSEIDON altimeter data. *Nonlinear Processes in Geophysics*, 5, 153-165, 1998.

54. Huang, N. E., Z. Shen, S. R. Long, M. C. Wu, H. H. Shih, **Q. Zheng**, N.-C. Yen, C. C. Tung, and H. H. Liu. The empirical mode decomposition and the Hilbert spectrum for nonlinear and non-stationary time series analysis. *Proc. R. Soc. Lond. A*, 454, 903-995, 1998.
55. Hou, Y., B. Yin, Q. Xie, L. Yang, and **Q. Zheng**. Traveling wave characteristic study of driven nonlinear shallow water wave. *Oceanologia et Liminologia Sinica*, 30, 397-402, 1999.
56. Ho, C.-R., N.-J. Kuo, **Q. Zheng**, and Y. S. Soong. Dynamically active areas in the South China Sea detected from TOPEX/POSEIDON satellite altimeter data. *Rem. Sens. Environ.*, 71, 320-328, 2000.
57. Ho, C.-R., **Q. Zheng**, Y. S. Soong, N.-J. Kuo, and J.-H. Hu. Seasonal variability of sea surface height in the South China Sea observed with TOPEX/POSEIDON altimeter data. *J. Geophys. Res.*, 105, 13,981-13,990, 2000.
58. Kuo, N.-J., **Q. Zheng**, and C.-R. Ho. Satellite observation of upwelling along the western coast of the South China Sea. *Rem. Sens. Environ.*, 74, 463-470, 2000.
59. Li, X., **Q. Zheng**, W. G. Pichel, X.-H. Yan, W. T. Liu, and P. Clemente-Colon. Analysis of coastal lee waves along the coast of Texas observed on AVHRR images. *J. Geophys. Res.*, 106, 7017-7025, 2001.
60. **Zheng, Q.**, X.-H. Yan, W. T. Liu, V. Klemas, and D. Sun. Space shuttle observations of open ocean oil slicks. *Rem. Sens. Environ.*, 76, 49-56, 2001.
61. **Zheng, Q.**, V. Klemas, X.-H. Yan, and J. Pan. Nonlinear evolution of ocean internal solitons as propagating along inhomogeneous thermocline. *J. Geophys. Res.*, 106, 14,083-14,094, 2001.
62. Klemas, V., **Q. Zheng**, and X.-H. Yan. Ocean internal wave observations using space shuttle and satellite imagery. *Geocarto International*, 16, 51-55, 2001.
63. Susanto, R. D., A. L. Gordon, and **Q. Zheng**. Upwelling along the coasts of Java and Sumatra and its relation to ENSO. *Geophys. Res. Lett.*, 28, 1599-1602, 2001.
64. Pan, J., X.-H. Yan, **Q. Zheng**, and W. T. Liu. Vector empirical orthogonal function modes of the ocean surface wind variability derived from satellite scatterometer data. *Geophys. Res. Lett.*, 28, 3951-3954, 2001.
65. Pan, J., X.-H. Yan, **Q. Zheng**, and W. T. Liu. Scatterometers Observe the variation of the Walker Circulation. *EOS Transaction*, 82, 536-537, 2001.
66. **Zheng, Q.**, Y. Yuan, V. Klemas, and X.-H. Yan. Theoretical expression for an ocean internal soliton SAR image and determination of the soliton characteristic half width. *J. Geophys. Res.*, 106, 31,415-31,423, 2001.

67. **Zheng, Q.**, V. V. Klemas, and X.-H. Yan. Advance in studies of ocean internal waves observed from space. In *Recent Research Developments in Geophysics*, Research Signpost, 4, 143-156, 2002.
68. Pan, J., X.-H. Yan, **Q. Zheng**, W. T. Liu, and V. Klemas. Interpretation of scatterometers ocean surface wind vector EOFs over the Northwestern Pacific. *Rem. Sens. Environ.*, 84, 53-68, 2002.
69. Pan, J., X.-H. Yan, **Q. Zheng**, and W. T. Liu. Observation of western boundary current atmospheric convergence zones using scatterometer winds. *Geophys. Res. Lett.*, 29, 13-1-13-3, 2002.
70. Li, X., T. F. Donato, **Q. Zheng**, W. G. Pichel, and P. Clemente-Colón. An extraordinary breach of the Gulf Stream north wall by a cold water intrusion. *Geophys. Res. Lett.*, 29, 8-1-8-4, 2002.
71. Xiu, S., **Q. Zheng**, and X. Sun, Upwelling induced by ocean mesoscale eddy. *Res. Progr. Hydrodynamics*, 17, 61-68.
72. Tian, J., L. Zhou, X. Zhang, X. Liang, **Q. Zheng**, and W. Zhao. Estimates of internal tide energy fluxes along the margin of Northwestern Pacific using TOPEX/POSEIDON altimeter data. *Geophys. Res. Lett.*, 30, 4-1-4-4, 2003.
73. Kuo, N.-J., **Q. Zheng**, and C.-R. Ho. Response of Vietnam Coastal Upwelling to the 1997-1998 ENSO event observed by multi-sensor data. *Rem. Sens. Environ.*, 89, 106-115, 2004.
74. Qiao, F., Y. Yuan, Y. Yang, **Q. Zheng**, C. Xia, and J. Ma. Wave-induced mixing in the upper ocean: Distribution and application to a global ocean model. *Geophys. Res. Lett.*, 31, L11303, doi:10.1029/2004GL019824, 2004.
75. Ho, C.-R., **Q. Zheng**, and N.-J. Kuo. Multi-Year SeaWiFS observations of upwelling south of Madagascar. *Deep-Sea Res. II*, 51, 59-67, 2004.
76. Zhang, S., **Q. Zheng**, and X. Liu. Finite element analysis of suction penetration seepage field of bucket foundation platform with application to offshore oilfield development. *Ocean Engineering*, 31, 1591-1599, 2004.
77. **Zheng, Q.**, S. S. P. Shen, Y. Yuan, N. E. Huang, V. Klemas, X.-H. Yan, F. Shi, X. Zhang, Z. Zhao, X. Li, and P. Clemente-Colón. Cover. *International Journal of Remote Sensing*, 25, 4431, 2004.
78. **Zheng, Q.**, S. S. P. Shen, Y. Yuan, N. E. Huang, V. Klemas, X.-H. Yan, F. Shi, X. Zhang, Z. Zhao, X. Li, and P. Clemente-Colón, Evidence of the coexistence of upstream and

downstream solitary wavetrains in the real atmosphere. *International Journal of Remote Sensing*, 25, 4433-4440, 2004.

79. Ho, C.-R., **Q. Zheng**, N.-J. Kuo, C.-H. Tsai, and N. E. Huang, Observation of the Kuroshio Intrusion region in the South China Sea from AVHRR data. *International Journal of Remote Sensing*, 25, 4583-4591, 2004.

80. **Zheng, Q.**, P. Clemente-Colón, X.-H. Yan, W. Timothy Liu, and N. E. Huang. Satellite SAR detection of Delaware Bay plumes: Jet-like feature analysis. *J. Geophys. Res.*, 109, C03031, 10.1029/2003JC002100, 2004.

81. Alpers, W., G. Campbell, H. Wensink, and **Q. Zheng**, Underwater topography, in *Synthetic Aperture Radar Marine User's Manual* edited by Jackson and Apel, NOAA NESDIS, pp. 245-262, 2004.

82. Pan, J., X.-H. Yan, Y.-H. Jo, **Q. Zheng**, and W. T. Liu, A New method for estimation of the sensible heat flux under unstable conditions using satellite vector winds. *J. Phys. Ocean.*, 34, 968-977, 2004.

83. Zhao, Z., V. Klemas, **Q. Zheng**, and X.-H. Yan. Satellite observation of internal solitary waves converting polarity. *Geophys. Res. Lett.*, 2004, in press.

84. **Zheng, Q.**, Comments on "Can near-inertial internal waves in the East Sea be observed by synthetic aperture radar?" *Geophys. Res. Lett.*, 32, L20606 10.1029/2005GL023770, 2005. (PDF)

85. Fang, G., D. Susanto, I. Soesilo, **Q. Zheng**, F. Qiao, and Z. Wei, A note on the South China Sea shallow interocean circulation. *Advances in Atmospheric Sciences*, 22, 946-954, 2005.

86. Susanto, R. D., L. Mitnik, and **Q. Zheng**. Ocean internal waves observed in the Lombok Strait. *Oceanogr.*, 18, 80-89, 2005.

87. **Zheng Q.**, R. J. Lai, N. E. Huang, J. Pan, and W. T. Liu. Observation of ocean current response to 1998 Hurricane Georges at Gulf of Mexico. *Acta Oceanologica Sinica*, 25, 1-14, 2006.

88. Su, F.-C., C.-R. Ho, **Q. Zheng**, N.-J. Kuo, and C.-T. Chen, Satellite chlorophyll retrievals with a bipartite artificial neural network model. *International Journal of Remote Sensing*, 27, 1563-1579, 2006.

89. **Zheng, Q.**, G. Fang, and Y. T. Song. Introduction to special section: Dynamic Processes and Circulation in Yellow Sea, East China Sea, and South China Sea. *J. Geophys. Res.*, 111, C11S01, doi:10.1029/2005JC003261, 2006.

90. Li, C., J. Hu, S. Jan, Z. Wei, G. Fang, and **Q. Zheng**. Winter-spring fronts in Taiwan Strait, *J. Geophys. Res.*, 111, C11S13, doi:10.1029/2005JC003203, 2006.
91. Yuan, Y., **Q. Zheng**, D. Dai, X. Hu, F. Qiao, and J. Meng. The mechanism of internal waves in the Luzon Strait. *J. Geophys. Res.*, 111, C11S17, doi:10.1029/2005JC003198, 2006.
92. **Zheng, Q.**, L. Li, X. Guo, Y. Ge, D. Zhu, and C. Li. SAR Imaging and hydrodynamic analysis of ocean bottom topographic waves. *J. Geophys. Res.*, 111, C09028, doi:10.1029/2006JC003586, 2006. (PDF)
93. **Zheng, Q.**, R. D. Susanto, C. Ho, Y. T. Song, and Q. Xu, Statistical and dynamical analyses of generation mechanisms of solitary internal waves in the northern South China Sea. *J. Geophys. Res.*, 112, C03021, doi:10.1029/2006JC003551, 2007. (PDF)
94. Pichel, W. G., J. H. Churnside, T. S. Veenstra, D. G. Foley, K. S. Friedman, R. E. Brainard, J. B. Nicoll, **Q. Zheng**, and P. Clemente-Colón, Marine debris collects within the North Pacific Subtropical Convergence Zone, *Marine Pollution Bulletin*, 54, 1207-1211, 2007.
95. **Zheng, Q.**, and R. D. Susanto, Solitary waves in fluids, Book review, *Oceanography*, 20, 148-149, 2007.
96. Lin, H., Xu, Q., and **Zheng, Q.** An overview on SAR measurements of sea surface wind. *Prog. Nat. Sci.*, 18, 913-919, 2008.
97. Su, F.C., Ho, C.R., **Zheng, Q.**, and Kuo, N.J. Estimating amplitudes of internal waves using satellite ocean colour imagery of the South China Sea. *Int. J. Remote Sens.*, 29, 6373-6380, 2008.
98. Xu, Q., Lin, H., Jiang, L., Yin, X., **Zheng, Q.**, and Liu, Y., editors. SAR Measurement of Ocean Surface Wind Using A Physics Model. *Geoscience and Remote Sensing Symposium*, 2008.
99. Xu, Q., Lin, H., **Zheng, Q.**, Xiu, P., Cheng, Y., and Liu, Y. Evaluation of ENVISAT ASAR data for sea surface wind retrieval in Hong Kong coastal waters of China. *Acta Oceanol. Sin.*, 27, 2008.
100. **Zheng, Q.**, Chen, Q., Zhao, H., Shi, J., Cao, Y., and Wang, D. A statistic-thermodynamic model for the DOM degradation in the estuary. *Geophys Res. Lett.*, 35, 2008.
101. **Zheng, Q.**, Lin, H., Meng, J., Hu, X., Song, Y.T., Zhang, Y., and Li, C. Sub-mesoscale ocean vortex trains in the Luzon Strait. *J. Geophys. Res.*, 113, 2008.
102. Li, X., Yang, X., **Zheng, Q.**, Pietrafesa, L.J., Pichel, W.G., Li, Z., and Li, X. Deep-water bathymetric features imaged by spaceborne SAR in the Gulf Stream region. *Geophys Res. Lett.*, 37, 2010.

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105. **Zheng, Q.**, Zhao, Q., Nan, W., and Li, C. Oil spill in the Gulf of Mexico and spiral vortex. *Acta Oceanol. Sin.*, 29, 1-2, 2010.
106. Zheng, Z.W., Ho, C.R., **Zheng, Q.**, Lo, Y.T., Kuo, N.-J., and Gopalakrishnan, G. Effects of preexisting cyclonic eddies on upper ocean responses to Category 5 typhoons in the western North Pacific. *J. Geophys. Res.*, 115, 2010.
107. Zheng, Z.-W., Ho, C.-R., **Zheng, Q.**, Kuo, N.-J., and Lo, Y.-T. Satellite observation and model simulation of upper ocean biophysical response to Super Typhoon Nakri. *Cont. Shelf Res.*, 30, 1450-1457, 2010.
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