

Research Publications

1. Refereed Journal Publications

(The first author underlined was a student, trainee or research staff under my (co-)supervision):

109. Ye, H., J. Sheng, D. Tang, E. Siswanto, M. Kalhoro, and Y. Sui, 2017. Storm-induced changes in pCO₂ at the sea surface over the northern South China Sea during Typhoon Wutip. *Journal of Geophysical Research*, **122**, 4761-4778, doi: 10.1002/2016JC012643.
<http://onlinelibrary.wiley.com/doi/10.1002/2016JC012643/full>
108. Wang, P., J. Sheng and C. Hannah, 2017. Assessing the performance of formulations for nonlinear feedback of surface gravity waves on ocean currents over coastal waters. *Continental Shelf Research*, **146**, 102-117. <http://dx.doi.org/10.1016/j.csr.2017.08.014>.
<http://www.sciencedirect.com/science/article/pii/S0278434316306471>
107. Guo, L., and J. Sheng, 2017. Impacts of climate changes on ocean surface gravity waves over the eastern Canadian shelf. *Ocean Dynamics*, **67**, 621–637, Doi: 10.1007/s10236-017-1046-3.
<https://link.springer.com/article/10.1007/s10236-017-1046-3>
106. Zhu, L.S., J. Sheng, and X. Ji, 2016. Tidally-averaged water and salinity transport velocities over estuarine and coastal waters, with an application to the Pearl River Estuary. *Ocean Dynamics*, **66**, 1125-1142, doi: 10.1007/s10236-016-0975-6.
<https://link.springer.com/article/10.1007/s10236-016-0975-6>
105. Ni, X., J. Sheng, and W. Feng, 2016. Simulation of free surface flow using the smoothed particle hydrodynamics (SPH) method with radiation open boundary conditions. *Journal of Atmospheric and Oceanic Technology*, **33**, 2435-2460, Doi: 10.1175/JTECH-D-15-0179.1.
<http://journals.ametsoc.org/doi/abs/10.1175/JTECH-D-15-0179.1>
104. Wang, P., and J. Sheng, 2016. A comparative study of wave-current interactions over the eastern Canadian shelf under severe weather conditions. *Journal of Geophysical Research-Oceans*, **121**, 5252-5281, doi: 10.1002/2016JC01175.
<http://onlinelibrary.wiley.com/doi/10.1002/2016JC011758/full>
103. Béguet-Pon, M., K. Ohashi, J. Sheng, M. Castonguay, and J. J. Dodson, 2016. Modeling the migration of the American eel in the Gulf of St. Lawrence. *Marine Ecology Progress Series*, **549**, 183-198, doi: 10.3354/meps11706.
<http://www.int-res.com/articles/meps2016/549/m549p183.pdf>
102. Taylor, A., K. Ohashi, J. Sheng, and M. Litvak, 2016. Oceanic distribution, behaviour, and a winter aggregation area of adult Atlantic sturgeon, *Acipenser oxyrinchus oxyrinchus*, in the Bay of Fundy, Canada. *PloS One*, **11**, e0152470, doi: 10.1371/journal.pone.0152470.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0152470>

101. Dever, M., D. Hebert, B.J.W. Greenan, J. **Sheng**, and P.C. Smith, 2016. Hydrography and coastal circulation along the Halifax Line and the connections with the Gulf of St. Lawrence. *Atmosphere-Ocean*, **54**, 199-217, doi: 10.1080/07055900.2016.1190132.
<http://www.tandfonline.com/doi/full/10.1080/07055900.2016.1189397>
100. Shan, S., J. **Sheng**, OK. Ohashi, and M. Dever, 2016. Assessing the performance of a multi-nested ocean circulation model using satellite remote sensing and in-situ observations. *Satellite Oceanography and Meteorology*, **1**, 39-59. doi: 10.18063/SOM.2016.01.004.
<http://ojs.whioce.com/index.php/som/article/view/183>
99. Wu, Y., J. **Sheng**, D. Senciall, and C. Tang, 2016. A comparative study of satellite-based operational analyses and ship-based in-situ measurements of sea surface temperatures over the eastern Canadian shelf. *Satellite Oceanography and Meteorology*, **1**, 29-38, doi: 10.18063/SOM.2016.01.003.
<http://ojs.whioce.com/index.php/som/article/view/182>
98. Béguer-Pon, M., S. Shan, K. R. Thompson, M. Castonguay, J. **Sheng** and J. J. Dodson, 2016. Exploring the role of the physical marine environment on the silver eel migration using a biophysical particle-tracking model. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsv169.
<https://academic.oup.com/icesjms/article/73/1/57/2458881/Exploring-the-role-of-the-physical-marine>
97. Urrego-Blanco, J., J. **Sheng**, Fred Dupont, 2016. Performance of one-way and two-way nesting techniques using the shelf circulation modelling system for the eastern Canadian shelf. *Atmosphere-Ocean*, **54**, 75-92, doi:10.1080/07055900.2015.1130122.
<http://www.tandfonline.com/doi/abs/10.1080/07055900.2015.1130122>
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<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0144423>
93. Guo, L., W. Perrie, Z. Long, B. Toulany, and J. **Sheng**, 2015. The impacts of climate change on the autumn North Atlantic wave climate. *Atmosphere-Ocean*, **53**, 491-509, doi: 10.1080/07055900.2015.1103697.
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92. Guo, L., and J. **Sheng**, 2015. Statistical estimation of extreme ocean waves over the eastern Canadian shelf from 30-year numerical wave simulation. *Ocean Dynamics*, **65**, 1489-1507, doi 10.1007/s10236-015-0878-y.
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91. Ji, X., J. **Sheng**, J. Zheng, and W. Zhang, 2015. Numerical study of seasonal circulation and variability over the inner shelf of the northern South China Sea. *Ocean Dynamics*, **65**, 1103-1120, doi: 10.1007/s10236-015-0862-6.
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<https://link.springer.com/article/10.1007/s10236-013-0688-z>
86. Shan, S., J. **Sheng**, B. Greenan, 2014. Physical processes affecting circulation and hydrography in the Sable Gully of Nova Scotia. *Deep-Sea Research*, **104**, 35-50, doi: 10.1016/j.dsr2.2013.06.019.
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81. Oliver, E., J. **Sheng**, K. Thompson, and J. Urrego Blanco, 2012. Extreme surface and Near Bottom Currents in the northwest Atlantic. *Natural Hazards*, **64**, 1425-1446, doi: 10.1007/s11069-012-0303-5.
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<https://doi.org/10.1016/j.ocemod.2011.02.010>
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2. Refereed Data Reports

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3. Non-Refereed Publications

(The first author underlined was a student, trainee or research staff under my (co-)supervision):

13. **Sheng**, J., C. Wilson, and X. Zhai, 2015. Editorial. *Ocean Dynamics*, **65**, 1583-1584, doi: 10.1007/s10236-015-0890-2.
12. **Sheng**, J., and D. Lefairvre, 2016. Introduction to the special issue on dynamics of the Gulf of St. Lawrence system and its influence on the ecosystem: past, present and future. *Atmosphere-Ocean*, **54**, 193-198, doi: 10.1080/07055900.2016.1189397.
11. **Sheng**, J., and L. Tang, 2011. Investigating storm-induced circulation and hydrodynamic connectivity in the Pearl River Estuary of China using a nested-grid coastal circulation model. Extended abstract for 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, 158-162.
10. Shan, S., and J. **Sheng**, 2011. Application of a multi-nested ocean circulation model for investigating circulation, flushing time and dispersion in Halifax Harbour and adjacent waters. Extended abstract for 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, 154-157.

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8. **Sheng**, J., D. Hasegawa, K. Thompson, P. Hill and D. Greenberg, 2011. Assessing the Far Field Effects of Tidal Power Extraction on the Bay of Fundy, Gulf of Maine and Scotian Shelf. OEER Newsletter, Issue 2.
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4. **Sheng**, J., and Y. Rao, 2004. Development of a three-dimensional hydrodynamic circulation model for Lake Huron and Georgian Bay. National Water Research Institute Contribution No. 04-176.
3. Ritchie, H., S. Desjardins, J. **Sheng**, J., and L. Wang, 2004. Coupled atmosphere-ocean observations and modelling for Lunenburg Bay, Nova Scotia. Extended abstract for Symposium on Forecasting the Weather and Climate of the Atmosphere and Ocean.
2. Azetsu-Scott, K., R. M. Gershey, E. P. Jones, and J. **Sheng**, 2001. Natural and anthropogenic CO₂ in the Labrador Sea: Distribution, inventory and uptake. Sixth International Carbon Dioxide Conference, Extended Abstract, Vol. 2, 654-657.
1. Smith, P. C., D. J. Lawrence, K. R. Thompson, J. **Sheng**, G. Verner, J. St. James, N. Bernier, and L. Feldman, 1998. Improving the skill of search-and-rescue forecast. The Canadian Meteorological and Oceanography Society Bulletin, 26, 119-129.

4. Conference and Workshop Presentations (since 1990)

(The first author underlined was a student, trainee or research staff under my (co-)supervision):

137. **Sheng**, J., Development and Applications of Shelf Circulation Models for the Eastern Canadian Shelf, 9th International Workshop on Modeling the Ocean, Seoul, South Korea, July, 2017.
136. **Sheng**, J., Development and applications of shelf circulation models for the eastern Canadian shelf. Annual Science Meeting of MEOPAR, Montreal, Canada, June, 2017.
135. **Sheng**, J., Development and applications of shelf circulation models for the eastern Canadian shelf. 51st Annual CMOS Congress, Toronto, Canada, June, 2017 (invited).

134. Wang, Y., M. Cluas, R.J. Greatbatch, and J. **Sheng**. Diagnosing the dynamics of the barotropic transport in the North Atlantic Ocean with a high-resolution circulation model. 51st Annual CMOS Congress, Toronto, Canada, June, 2017.
133. Lin, S., J. **Sheng**. Investigating the sensitivity of the drag coefficient under hurricane conditions in spectral wave models. 51st Annual CMOS Congress, Toronto, Canada, June, 2017.
132. Ohashi, K., and J. **Sheng**. Development and applications of a next-generation coastal ocean forecast system for the eastern Canadian seaboard. 51st Annual CMOS Congress, Toronto, Canada, June, 2017.
131. Wang, P., and J. **Sheng**, J. Assessing the performance of formulations for nonlinear feedback of surface gravity waves on ocean currents over coastal waters. 51st Annual CMOS Congress, Toronto, Canada, June, 2017.
130. **Sheng**, J., Development and applications of numerical ocean models for coastal waters and shelf seas. MEOPAR Cycle II KTEE Project Planning Meeting, Halifax, Canada, March 2017.
129. Shan, S., and J. **Sheng**, Eulerian and Lagrangian studies of circulation on the Scotian Shelf and adjacent deep Waters of the North Atlantic with biological Implications, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
128. Wang, P., and J. **Sheng**, Assessing the performance of formulations for nonlinear feedback of surface waves on ocean currents over coastal waters, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
127. Lin, S., and J. **Sheng**, Attenuation of wave energy by the sea ice over the eastern Canadian shelf, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
126. Yi, S., and J. **Sheng**, Physical processes affecting dissolved oxygen concentration in Bedford Basin, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
125. Wang, Y., and J. **Sheng**, Physical processes affecting the shelf-ocean exchange over the eastern Canadian shelf, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
124. Ohashi, K., and J. **Sheng**, Development of a next-generation nested-grid coastal ocean forecast system for eastern Canada, Regional Ocean modelling and Prediction Workshop, Halifax, Canada, February 2017.
123. **Sheng**, J., Development and applications of numerical ocean models for coastal waters and shelf seas. MEOPAR annual science meeting, Ottawa, Canada, September 2016.
122. Lin, S., and J. **Sheng**, Assessing performance of different wave breaking parameterizations over shallow waters. 14th International Conference on Estuarine and Coastal Modeling, Rhode Island, USA, June 2016.
121. **Sheng**, J. and K. Ohashi, Simulation of Atlantic salmon post-smolt movement along the north shore of the Gulf of St. Lawrence, 14th International Conference on Estuarine and Coastal Modeling, Rhode Island, USA, June 2016.

120. **Sheng**, J., and Y. Wang, Examination of wave-current interactions over the eastern Canadian shelf under severe weather conditions using a coupled circulation-wave model, 8th International Workshop on Modeling the Ocean, Bologna, Italy, June, 2016.
119. **Sheng**, J., and L. Guo, Impacts of climate change on the ocean waves over the eastern Canadian shelf, 8th International Workshop on Modeling the Ocean, Bologna, Italy, June, 2016.
118. Wang, P., and J. **Sheng**, Examination of wave-current interactions over the eastern Canadian shelf under severe weather conditions using a coupled circulation-wave model, 50th Annual CMOS Congress, Fredericton, Canada, May, 2016.
117. Shan S., J. **Sheng**, K. Ohashi, and M. Dever, Simulating three-dimensional circulation and hydrography over the central Scotian Shelf using a multi-nested ocean circulation model, 50th Annual CMOS Congress, Fredericton, Canada, May, 2016.
116. Guo, L., and J. **Sheng**, Impacts of climate change on the ocean waves over the eastern Canadian shelf, 50th Annual CMOS Congress, Fredericton, Canada, May, 2016.
115. Wang, Y., and J. **Sheng**, Hydrodynamic connection between the Gulf of St. Lawrence and shelf waters of the Northwest Atlantic Ocean, 50th Annual CMOS Congress, Fredericton, Canada, May, 2016.
114. Ohashi, K., and J. **Sheng**, Simulation of Atlantic salmon post-smolt movement along the north shore of the Gulf of St. Lawrence, 50th Annual CMOS Congress, Fredericton, Canada, May, 2016.
113. Wang, P., and J. **Sheng**, Examination of wave-current interactions over the eastern Canadian shelf under severe weather conditions using a coupled circulation-wave model, JONSMOD 2016, Oslo, Norway, May, 2016.
112. **Sheng**, J., and S. Shan, Numerical study of circulation and hydrography over the Scotian Shelf using a multi-nested ocean circulation model, JONSMOD 2016, Oslo, Norway, May, 2016.
111. **Sheng**, J., Building a network of fixed coastal observing and forecast system, CONCEPT-MEOPAR workshop, Doval, August, 2015.
110. **Sheng**, J., and L. Guo, Statistical estimation of the impact of climate change on extreme waves over the Northwest Atlantic, 7th International Workshop on modeling the Ocean, Canberra, Australia, June, 2015.
109. **Sheng**, J., and P. Wang, Numerical study of wave-current Interactions under Extreme Weather Conditions over the Eastern Canadian Shelf, 7th International Workshop on modeling the Ocean, Canberra, Australia, June, 2015.
108. Shan, S., and J. **Sheng**, A Modelling study of coastal upwelling on the Scotian Shelf, 49th Annual CMOS Congress, Whistler, Canada, June, 2015.
107. Wang, Y., and J. **Sheng**, A modelling study of the effect of tide-surge interaction on the circulation and hydrography over the Canadian eastern seaboard, 49th Annual CMOS Congress, Whistler, Canada, June, 2015.
106. Sui, Y., and J. **Sheng**, Numerical Study of Circulation, Dispersion and Hydrodynamic Connectivity over the Scotian Shelf, 49th Annual CMOS Congress, Whistler, Canada, June, 2015.

105. Wang, P., and J. **Sheng**, Numerical study of wave-current Interactions under Extreme Weather Conditions over the Eastern Canadian Shelf, 49th Annual CMOS Congress, Whistler, Canada, June, 2015.
104. Shan, S., and J. **Sheng**, A Modelling study of coastal upwelling on the Scotian Shelf, Conference of Dalhousie Oceanography Graduate Students, Halifax, March, 2015.
103. Sui, Y., and J. **Sheng**, K. Ohashi, Y. Wu and S. Shan, Dispersion and hydrodynamic connectivity over the Scotian Shelf, a numerical investigation using a nested-grid ocean circulation model, Conference of Dalhousie Oceanography Graduate Students, Halifax, March, 2015.
102. Wang, P., and J. **Sheng**, Numerical study of wave-current interactions over the eastern Canadian shelf under extreme weather conditions, Conference of Dalhousie Oceanography Graduate Students, Halifax, March, 2015.
101. **Sheng**, J., Estimation of extreme sea levels due to storm surges and tides over the northwest Pacific Ocean, 7th Multi-disciplinary Symposium of Chinese Professors, Niagara-on-the-Lake, August, 2014.
100. Urrego-Blanco, J., and J. **Sheng**, Study of sea ice dynamics in the Gulf of St. Lawrence using a nested-grid ocean-ice model, 6th International Workshop on Modeling the Ocean, Halifax, June, 2014.
99. Ohashi, K., and J. **Sheng**, Using numerical particle-tracking to study the movement of marine animals, 6th International Workshop on Modeling the Ocean, Halifax, June, 2014.
98. Shan, S., J. **Sheng** and B. J.W. Greenan, Modelling study of circulation and particle movement in a submarine canyon: Sable Gully, 6th International Workshop on Modeling the Ocean, Halifax, June, 2014.
97. Ji, X., and J. **Sheng**, The influence of coastline changes on tidal circulation in the abandoned Yellow River Mouth and adjacent coastal waters, 6th International Workshop on Modeling the Ocean, Halifax, June, 2014.
96. Zhang, H., and J. **Sheng**, Mapping present day extreme sea levels over coastal waters of northwestern Pacific, 6th International Workshop on Modeling the Ocean, Halifax, June, 2014.
95. Ohashi, K., and J. **Sheng**, Using numerical particle-tracking to study the movement of marine animals in eastern Canadian waters, 48th Annual CMOS Congress, Rimouski, Canada, June, 2014.
94. Zhang, H., and J. **Sheng**, Simulation study of extreme sea levels due to storm surges and tides over the northwest Pacific, 48th Annual CMOS Congress, Rimouski, Canada, June, 2014.
93. Urrego-Blanco, J., and J. **Sheng**, Formation and distribution of sea ice in the Gulf of St. Lawrence: A process-oriented study using a coupled ocean-ice, 48th Annual CMOS Congress, Rimouski, Canada, June, 2014.
92. Shan, S., J. **Sheng** and M. Dever, A multi-nested circulation model for the central Scotian Shelf: Model validation, 48th Annual CMOS Congress, Rimouski, Canada, June, 2014.
91. **Sheng**, J., and J. Urrego-Blanco, Numerical study of ocean circulation and sea ice distribution over the eastern Canadian shelf, International Workshop on Atmosphere and Ocean Dynamics, Liverpool, United Kingdom April, 2014.

90. **Sheng**, J., Development of a nested-grid circulation model for Halifax Harbour, Halifax Harbor Oil Spill Modeling and Response Workshop, Halifax, Nova Scotia, February, 2014.
89. **Sheng**, J., Development of a nested-grid circulation model for Halifax Harbour, MEOPAR Port of Saint John Marine Risk Workshop, St. John, New Brunswick, October, 2013.
88. **Sheng**, J., and J. Urrego-Blanco, Assessment of one-way and two-way nesting techniques in a coupled ocean-ice circulation model for the eastern Canadian shelf, 5th International Workshop on Modeling the Ocean, Bergen, June, 2013.
87. **Sheng**, J., S. Shan, and B. Greenan, Physical processes affecting circulation and hydrography in the Sable Gully of Nova Scotia, 5th International Workshop on Modeling the Ocean, Bergen, June, 2013.
86. Zhang, H., and J. **Sheng**, Estimation of extreme sea levels over the continental shelf of Eastern North America, 5th International Workshop on Modeling the Ocean, Bergen, June, 2013.
85. **Sheng**, J., and H. Zhang, Estimation of extreme sea levels over the eastern Continental shelf of North America, 47th Annual CMOS Congress, Saskatoon, Canada, May, 2013.
84. **Sheng**, J., and K. Ohashi, Numerical examination of effects of the physical environment on movements of American eel in the Gulf of St. Lawrence, 47th Annual CMOS Congress, Saskatoon, Canada, May, 2013.
83. **Sheng**, J., The far-field effect of tidal energy extraction on circulation and hydrography in the Bay of Fundy and Gulf of Maine, 46th Annual CMOS Congress, Montreal, Canada, May, 2012 (invited).
82. Urrego-Blanco, J., and J. **Sheng**, Numerical study of circulation, hydrography and sea-ice conditions in the Gulf of St. Lawrence and Scotian Shelf using a coupled ocean-ice model, 46th Annual CMOS Congress, Montreal, Canada, May, 2012.
81. Shan, S., J. **Sheng**, and B. Greenan, Shelfbreak frontal circulation near the Sable Gully of Nova Scotia, 46th Annual CMOS Congress, Montreal, Canada, May, 2012.
80. **Sheng**, J., The far-field effect of tidal energy extraction on circulation and hydrography in the Bay of Fundy and Gulf of Maine: Numerical Study using the Princeton Ocean Model, 4th International Workshop on Modelling the Ocean, Yokohama, Japan, May, 2012 (invited).
79. Urrego-Blanco, J., and J. **Sheng**, Numerical study of circulation, hydrography and sea-ice conditions in the Gulf of St. Lawrence and Scotian Shelf using a coupled ocean-ice model, JONSMOD Meeting, Brest, France, May, 2012.
78. Shan, S., J. **Sheng**, and B. Greenan, Shelf break frontal circulation near the Sable Gully of Nova Scotia, JONSMOD Meeting, Brest, France, May, 2012.
77. **Sheng**, J., and K. Ohashi, Numerical study of circulation and particle movements in the Gulf of St. Lawrence and Scotian Shelf, Ocean Science meeting, Salt Lake, USA, February, 2012.
76. **Sheng**, J., and L. Tang, Numerical Study of Estuarine Circulation and Hydrodynamic Connectivity in the Pearl River Estuary of China using a Nested-Grid Coastal Circulation Model. 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, July 2011.

75. Shan, S., and J. **Sheng**, Application of a Nested-grid Ocean Circulation Model for Investigating Circulation, Flushing Time and Dispersion in Halifax Harbour and Adjacent Water. 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, July 2011.
74. Zhao, J., Y. R. Rao, and J. **Sheng**, Numerical Study of Dispersion and Hydrodynamic Connectivity of Near-Surface Waters in Lake Huron. 15th International Workshop on Physical Processes in Natural Waters: Fluids and Environments, Burlington, Ontario, July 2011.
73. **Sheng**, J., and D. Hasegawa, Investigating far-field effects of tidal in-stream energy extraction in the Minas Passage on tidal circulation in the Bay of Fundy and the Gulf of Maine using a nested-grid coastal ocean circulation model. 45th Annual CMOS Congress, Victoria, Canada, June 2011.
72. Shan, S., and J. **Sheng**, Application of a Multi-Nested Ocean Circulation Model for Investigating Circulation, Flushing Time and Dispersion in Halifax Harbour and Adjacent Waters. 45th Annual CMOS Congress, Victoria, Canada, June 2011.
71. **Sheng**, J., L. Tang, and X. Ji, Examination of circulation and associated seasonal variability in the Pearl River Estuary of China using a nested-grid coastal ocean circulation model. 44th Annual CMOS Congress, Ottawa, Canada, June 2010.
70. Hasegawa, D., and J. **Sheng**, Study of tidal circulation and seasonal variability in the Gulf of Maine and Bay of Fundy using a nested-grid ocean circulation model. 44th Annual CMOS Congress, Ottawa, Canada, June 2010.
69. Urrego-Blanco, J., and J. **Sheng**, Assessing the performance of a northwest Atlantic Ocean circulation model using the spectral nudging and the semi-prognostic methods. 44th Annual CMOS Congress, Ottawa, Canada, June 2010.
68. Shan, S., and J. **Sheng**, Simulating three-dimensional circulation and hydrography in Halifax Harbour using a nested-grid ocean circulation model. 44th Annual CMOS Congress, Ottawa, Canada, June 2010.
67. Lin, Y., J. **Sheng**, and R. Greatbatch, A model study of the connectivity of circulation variations in the Intra-Americas Sea. 44th Annual CMOS Congress, Ottawa, Canada, June 2010.
66. **Sheng**, J., and D. Hasegawa, Assessing the far field effects of tidal power extraction on the Bay of Fundy using a nested-grid model. JONSMOD Meeting, Delft, Netherlands, May 2010.
65. Shan, S., and J. **Sheng**, Numerical study of three-dimensional circulation and hydrography in Halifax Inlet using a nested-grid ocean circulation model. JONSMOD Meeting, Delft, Netherlands, May 2010.
64. **Sheng**, J., L. Tang, X. Ji, and D. Liu, Numerical study of estuarine circulation in the Pearl River Estuary of China using a nested-grid coastal circulation model. 11th International Conference on Estuarine and Coastal Modeling, Seattle, USA, November 2009.
63. Lin, Y., J. **Sheng**, and R. J. Greatbatch, A numerical study of circulation and variability in the Intra-Americas Sea. 11th International Conference on Estuarine and Coastal Modeling, Seattle, USA, November 2009.

62. **Sheng, J.**, Numerical study of three-dimensional circulation over coastal waters of Nova Scotia during Tropical Storm Alberta using a five-level nested-grid ocean circulation model. 43rd Annual CMOS Congress, Halifax, Canada, June 2009.
61. **Ji, X, J. Sheng,** and L. Tang, Process study of dynamics over the Pearl River Estuary using a nested-grid coastal circulation model. 43rd Annual CMOS Congress, Halifax, Canada, June 2009.
60. **Urrego-Blanco, J.,** and J. **Sheng,** Developing a nested-grid circulation model for the eastern Canadian Shelf. 43rd Annual CMOS Congress, Halifax, Canada, June 2009.
59. **Ma, F.,** and J. **Sheng,** Physical Oceanography modeling of St. Margaret Bay. 43rd Annual CMOS Congress, Halifax, Canada, June 2009.
58. **Lin, Y., J. Sheng,** and R. G. Greatbatch, Numerical and observational study of circulation in the Intra-Americas Sea: Connection between the Gulf of Mexico Loop Current intrusion and throughflow transport variability. 43rd Annual CMOS Congress, Halifax, Canada, June 2009.
57. Hatcher, B., J. **Sheng,** and S. Andrefouet, Synoptic ecological tools for coral reef science. 11th International Coral Reef Symposium, Florida, July 2008.
56. **Sheng, J., X. Ji,** and L. Tang, Numerical study of circulation in the Pearl River Estuary of the South China Sea using a nested-grid coastal circulation model. JONSMOD Meeting, Bergen, Norway, June 2008.
55. **Sheng, J.,** and B. Yang, Development of a five-level nested-grid coastal circulation for the inner Scotian Shelf. 42nd Annual CMOS Congress, Kelowna, Canada, May 2008.
54. **Zhai, L.,** and J. **Sheng,** Investigation of circulation and hydrography in stratified coastal waters of Nova Scotia based on observations and numerical model results. 42nd Annual CMOS Congress, Kelowna, Canada, May 2008.
53. **Sheng, J., X. Ji.,** and L. Tang, A three-level nested-grid coastal circulation for the Pearl River Estuary of the South China Sea. 42nd Annual CMOS Congress, Kelowna, Canada, May 2008.
52. **Sheng, J.,** Numerical study of circulation and hydrodynamic connectivity on the Mesoamerican Barrier Reef System using a nested-grid ocean circulation model. 42nd Annual CMOS Congress, Kelowna, Canada, May 2008.
51. **Ohashi, K., J. Sheng,** K. R. Thompson, and H. Ritchie, Examining the effect of stratification on the tidal circulation over the Scotian Shelf using a three-dimensional circulation model. 42nd Annual CMOS Congress, Kelowna, Canada, May 2008.
50. **Sheng, J.,** and L. Zhai, Observational and numerical study of ocean dynamics over Canadian coastal waters. International workshop for Numerical Modeling and Prediction. Taipei, Taiwan, April 2008.
49. **Sheng, J,** and L. Zhai, Circulation and hydrography in the coastal waters of Nova Scotia: Observations and numerical modeling (poster). International workshop for Numerical Modeling and Prediction, Taipei, Taiwan, April 2008.

48. **Sheng**, J., B. Yang, L. Zhai, and K. Ohashi, A nested-grid coastal ocean prediction system for the Scotian Shelf (NCOPS-SS). 10th International Conference on Estuarine and Coastal Modeling, Rhode Island, USA, November 2007.
47. **Ohashi**, K., J. **Sheng**, K. R. Thompson, and H. Ritchie, The effect of seasonal variations in vertical stratification on the tidal circulation over the Scotian Shelf and the Gulf of St. Lawrence. 10th International Conference on Estuarine and Coastal Modeling, Rhode Island, USA, November 2007.
46. **Zhai**, L., and J. **Sheng**, Improving the performance of a baroclinic coastal circulation model by assimilating hydrographic observations. 10th International Conference on Estuarine and Coastal Modeling, Rhode Island, USA, November 2007.
45. **Yang**, B., J. **Sheng**, and B. Hatcher, Numerical study of circulation, retention, and dispersion in the Bras d'Or Lakes of Nova Scotia using a numerical circulation model. 9th International Symposium on Fluid Control, Measurement and Visualization, Tallahassee, Florida, USA, September 2007.
44. **Sheng**, J., L. Wang, B. Yang, S. Andrefouet, C. Hu, B. C. Hatcher, and F. E. Muller-Karger, Numerical study of the upper ocean response of the western Caribbean Sea to Hurricane Mitch (poster). AMS 16th conference on Atmospheric and Oceanic Fluid Dynamics, Santa Fe, New Mexico, June 2007.
43. **Sheng**, J., Circulation and variability over the eastern Canadian shelf during the period 2001 to 2005, a numerical study. 41st Annual CMOS Congress, St. John's, Canada, May 2007.
42. **Ohashi**, K., J. **Sheng**, H. Ritchie, K. R. Thompson, and C. G. Hannah, Assessing the performance of Dalcost3 in simulating three-dimensional circulation on the Scotian Shelf. 41st Annual CMOS Congress, St. John's, Canada, May 2007.
41. **Zhai**, L., and J. **Sheng**, Coastal dynamical response to local wind forcing, tides, and buoyancy forcing in Lunenburg Bay of Nova Scotia. 41st Annual CMOS Congress, St. John's, Canada, May 2007.
40. **Yang**, B., and J. **Sheng**, Numerical study of circulation, retention, and dispersion in the Bras d'Or Lakes of Nova Scotia using a numerical circulation model. 41st Annual CMOS Congress, St. John's, Canada, May 2007.
39. **Sheng**, J., B. Yang, and B. Hatcher, Circulation and hydrographic structures in the Bras d'Or Lakes of Nova Scotia: A numerical study. JONSMOD Meeting, Plymouth, United Kingdom, June 2006.
38. **Sheng**, J., and R. Rao, Development of a nested-grid hydrodynamic model for simulating circulation and thermal structure in Lake Huron and Georgian Bay. 40th Annual CMOS Congress, Toronto, Canada, May 2006.
37. **Ohashi**, K., J. **Sheng**, H. Ritchie, K. R. Thompson, and C. G. Hannah, Simulating circulation on the Scotian Shelf using a sigma-coordinate model. 40th Annual CMOS Congress, Toronto, Canada, May 2006.
36. **Yang**, B., and J. **Sheng**, Application of a nested-grid hydrodynamic model to study circulation and hydrographic structures in the Bras d'Or Lakes of Nova Scotia (poster). 40th Annual CMOS Congress, Toronto, Canada, May 2006.
35. **Zhai**, L., and J. **Sheng**, Numerical study of baroclinic dynamics in Lunenburg Bay of Nova Scotia. 40th Annual CMOS Congress, Toronto, Canada, May 2006.

34. Zhao, J., J. **Sheng**, and L. Zhai, Assessing the performance of a high-resolution coastal circulation model in simulating the storm-induced circulation in Lunenburg Bay of Nova Scotia. 40th Annual CMOS Congress, Toronto, Canada, May 2006.
33. **Sheng**, J., Assessing the performance of a nested-grid coastal circulation modeling system for Canadian Coastal Waters (poster). 2006 Ocean Sciences Meeting, Hololulu, USA, February 2006.
32. Wang, L., J. **Sheng**, C. Hu and B. G. Hatcher, Storm-induced circulation on the Meso-American Barrier Reef System during Hurricane Mitch: Coupling remote sensing data and a nested-grid ocean circulation modeling system (poster). 2006 Ocean Sciences Meeting, Hololulu, USA, February 2006.
31. Andrefouet, S., F. Muller-Karger, C. S., Moses, L. Wang, C. Hu, C. Steinberg, J. **Sheng**, B. G. Hatcher, S. Ouillon, P. Douiller, Environmental assessments of coral reef ecosystems using EOS platforms and numerical ocean circulation models, A NASA interdisciplinary research effort. 2006 Ocean Sciences Meeting, Hololulu, USA, February 2006.
30. **Sheng**, J., Numerical simulation of seasonal circulation on the Belizean shelf: Application of a triply nested-grid ocean circulation model. 9th International Conference on Estuarine and Coastal Modeling, Charleston, USA, November 2005.
29. **Sheng**, J., Simulating seasonal circulation and particle dispersion on the Belizean shelf using a three-level nested-grid ocean circulation model. The Second Forum on Marine Science: New Development and Challenge, Qingdao, China, June 2005.
28. Wang, L., and J. **Sheng**, An interdisciplinary ocean observatory in Lunenburg Bay and development of a high-resolution coastal circulation model. The Second Forum on Marine Science: New Development and Challenge, Qingdao, China, June 2005.
27. Greatbatch, R., and J. **Sheng**, The semi-prognostic method. The Second Forum on Marine Science: New Development and Challenge, Qingdao, China, June 2005.
26. **Sheng**, J., R. J. Greatbatch, and X. Zhai, A three-dimensional ocean circulation model of the western Caribbean Sea: Circulation and seasonal variability. JONSMOD/MEDMOD Meeting, Warnemuende, Germany, June 2004.
25. **Sheng**, J., L. Wang, and L. Zhai, Assessing the performance of a high-resolution coastal circulation model using observations made in Lunenburg Bay of Nova Scotia during Hurricane Juan. 39th Annual CMOS Congress, Vancouver, Canada, May 2005.
24. Ritchie, H., S. Desjardins, J. **Sheng**, and L. Wang, Coupled atmosphere-ocean modeling for Lunenburg Bay, Nova Scotia. 84th Annual AMS (American Meteorological Society) Congress, Seattle, USA 2004.
23. Hatcher, B. Dixon, B. Fryer, D. Heath, J. Kritzer, B. Ruddick, J. **Sheng**, and L. Tang, Connecting the dots: Ecological linkages in large marine ecosystems. ASLO/TOS (American Society of Limnology and Oceanography/The Oceanography Society) Ocean Research 2004 Conference, Honolulu, USA 2004.
22. **Sheng**, J., X. Zhai, R. J. Greatbatch, Storm-induced circulation on the Scotian Shelf and slope using a two-way nested-grid ocean circulation modeling system. 38th Annual CMOS Congress, Edmonton, Canada, May 2004.

21. **Sheng**, J., and L. Wang, A high-resolution coastal circulation model for Lunenburg Bay, Nova Scotia. 8th International Conference on Estuarine and Coastal Modeling, Monterey, USA, November 2003.
20. **Zhai**, X., J. **Sheng**, and R. Greatbatch, A new two-way nested-grid ocean modeling technique applied to the Scotian Shelf and Slope water. 8th International Conference on Estuarine and Coastal Modeling, Monterey, USA, November 2003.
19. **Zhao**, L., J. **Sheng**, R. Greatbatch, K. Azetsu-Scott and C. Eden, Numerical study on uptake and spreading of chlorofluorocarbons in the Northwest Atlantic Ocean. 37th Annual CMOS Congress, Ottawa, Canada June 2003.
18. **Wang**, L., and J. **Sheng**, A three-dimensional coastal circulation model for Lunenburg Bay, Nova Scotia. 37th Annual CMOS Congress, Ottawa, Canada, June 2003.
17. **Tang**, L., and J. **Sheng**, A modelling study of physical processes of ocean circulation over the Mesoamerican Barrier Reef System. 37th Annual CMOS Congress, Ottawa, Canada, 2003.
16. **Sheng**, J., A three-dimensional ocean circulation model of the western Caribbean Sea: Circulation and seasonal variability. JONSMOD/MEDMOD Meeting, Liege, Belgium, 2002.
15. **Sheng**, J., Comparison of diagnostic, prognostic and semi-prognostic methods in simulating currents and tracer transports in the northwest Atlantic. 36th Annual CMOS Congress, Rimouski, Canada, 2002.
14. **Tang**, L., and J. **Sheng**, Numerical studies of seasonal circulation in the western Caribbean Sea. 36th Annual CMOS Congress, Rimouski, Canada, 2002.
13. **Wang**, L., and J. **Sheng**, Three-dimensional numerical study of barotropic tidal circulation in Lunenburg Bay, Nova Scotia. 36th Annual CMOS Congress, Rimouski, Canada, 2002.
12. Mercer, D., J. **Sheng** and R. J. Greatbatch, Barotropic waves generated by storms moving rapidly over shallow water. 25th Conference on Hurricanes and Tropical Meteorology, San Diego, USA, 2002.
11. **Sheng**, J., Circulation and drift pathways in the northwest Atlantic Ocean. 7th International Conference on Estuarine and Coastal Modeling, St. Petersburg, USA, 2001.
10. **Mercer**, D., J. **Sheng** and R. J. Greatbatch, Barotropic waves generated by storms moving rapidly over shallow water. 35th Annual CMOS Congress, Winnipeg, Canada, 2001.
9. **Sheng**, J. and R. J. Greatbatch, The seasonal circulation in the northwest Atlantic Ocean. 34th Annual CMOS Congress, Victoria, Canada, 2000.
8. **Sheng**, J., The Gaspé Current and cyclonic motion over the northwestern Gulf of St. Lawrence. Estuarine and Coastal Modeling 6, New Orleans, USA, 1999.
7. **Sheng**, J., Dynamics of a buoyancy-driven coastal jet: The Gaspé Current. 33rd Annual CMOS Congress, Montreal, Canada, 1999.
6. **Sheng**, J., and K.R. Thompson, Predicting circulation over eastern Canadian Shelves: progress and prospects. 32th Annual CMOS Congress, Halifax, Canada, 1998.

5. **Sheng**, J., and K. R. Thompson, Assimilating coastal sea level into a 3D shelf circulation model. in EOS, Trans, AGU, 75 88, Fall Conference, San Francisco, USA, 1994.
4. **Sheng**, J., and K. R. Thompson, Subtidal circulation variability on the Scotian Shelf: A retrospective modelling study. 24th Annual CMOS Congress, Ottawa, Canada, 1994.
3. **Sheng**, J., and K. R. Thompson, Circulation on the Scotian Shelf forced by mesoscale variability in the wind field. 23rd Annual CMOS Congress, Fredericton, Canada, 1993.
2. **Sheng**, J., and K. R. Thompson, Local and remote forcing of three-dimensional circulation on the Scotian Shelf. 22nd Annual CMOS Congress, Quebec, Canada, 1992.
1. **Sheng**, J., and A. E. Hay, Estimates of suspended sand concentration, size, and vertical diffusivity from multifrequency acoustic backscatter measurements in the nearshore zone. in EOS, Trans, AGU, 71, 1368-1369, Fall Conference, San Francisco, USA, 1990.

5. Invited Seminars (Since 1997)

79. **Sheng**, J., Development and applications of numerical ocean circulation and wave models for coastal waters. The second Institute of Oceanography, Hangzhou, China, July, 2017.
78. **Sheng**, J., Development and applications of numerical ocean circulation and wave models for coastal waters. Hohai University, Nanjing, China, June, 2017.
77. **Sheng**, J., Study of wave-current interactions under severe weather conditions using a coupled wave-circulation model, annual science meeting State of the Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, Guangzhou, China, January 2017.
76. **Sheng**, J., Development and applications of numerical ocean circulation and wave models for coastal waters, Graduate School of Tsinghua University, Shenzhen, China, December 2016.
75. **Sheng**, J., “Study of Circulation and Hydrography over the Eastern Canadian Shelf using a Coupled Circulation-Ice Model”, Norwegian Meteorological Institute, Oslo, May, 2016.
74. **Sheng**, J., “Application of the complex Empirical Orthogonal Function in the study of interannual variability of circulation over the eastern Canadian shelf”, Hohai University, Nanjing, March, 2016.
73. **Sheng**, J., “Wave-current interactions over the eastern Canadian shelf under severe weather conditions, a numerical study using a coupled wave-circulation model”, Hohai University, Nanjing, October, 2015.
72. **Sheng**, J., Wave-current interactions over coastal and shelf waters under severe weather conditions, a numerical study using a coupled wave-circulation model, South China Sea Institute of Oceanology, September, 2015.
71. **Sheng**, J., “Wave-current interactions over the eastern Canadian shelf under severe weather conditions, a numerical study using a coupled wave-circulation model”, National Marine Environmental Forecasting Center of China, Beijing, September, 2015.
70. **Sheng**, J., “Wave-current interactions over the eastern Canadian shelf under severe weather conditions, a numerical study using a coupled wave-circulation model”, Institute of Water Resources and Hydropower of China, Beijing, September, 2015.

69. **Sheng, J.**, “Multi-nested grid ocean circulation model: development and application to the northern South China Sea and Pearl River Estuary”, South China Sea Institute of Oceanology, China, August, 2014.
68. **Sheng, J.**, “Estimation of extreme sea levels due to storm surges and tides over the northwest Pacific Ocean”, Marine Environmental Observatory, Nantong, China, August, 2014.
67. **Sheng, J.**, “Estimation of extreme sea levels due to storm surges and tides over the northwest Pacific Ocean”, National Marine Hazard Mitigation Service of China, Beijing, July, 2014.
66. **Sheng, J.**, “Estimation of extreme sea levels due to storm surges and tides over the northwest Pacific Ocean”, National Marine Environmental Forecasting Center of China, Beijing, July, 2014.
65. **Sheng, J.**, “Development of three-level nested-grid ocean circulation model and its application to the Pearl River Estuary”, PLA University of Science and Technology, Nanjing, March, 2014
64. **Sheng, J.**, “Modelling Study of Circulation and Variability over the Eastern Canadian Shelf”, the Transatlantic Ocean System Science and Technology (TOSST) research school, Dalhousie University, Halifax, January, 2014.
63. **Sheng, J.**, “Estimation of Extreme Sea Levels over the Eastern Continental Shelf of North America”, Nanjing University of Information Science and Technology, Nanjing, November, 2013.
62. **Sheng, J.**, “Nested-Grid Ocean Circulation Model for Atlantic Canadian Coastal Waters”, MEOPAR Port of Saint John Marine Risk Workshop, St. John, October, 2013.
61. **Sheng, J.**, “How to write a scientific paper”, Hohai University, Nanjing, May, 2013.
60. **Sheng, J.**, “LRF Global Network to Improve Prediction of Extreme Marine Events”, Seoul, South Korea, April, 2013.
59. **Sheng, J.**, “Statistical Estimation of Ocean Extreme Currents over the northwest Atlantic Ocean”, Hohai University, China, May 2012.
58. **Sheng, J.**, “Statistical Estimation of Ocean Extreme Currents over the northwest Atlantic Ocean”, Ocean University of China, China, May 2012.
58. **Sheng, J.**, and E. Oliver, “Statistical Estimation of Extreme Currents over the northwest Atlantic Ocean”, National Marine Environmental Forecast Center of China, Beijing, December 2011.
57. **Sheng, J.**, and L. Tang, “Storm-Induced Circulation in the Pearl River Estuary during Super Typhoon Koryn in 1993”, Institute of Mechanics, Chinese Academy of Sciences, Beijing, December 2011.
56. **Sheng, J.**, and L. Tang, “Storm-Induced Circulation in the Pearl River Estuary during Super Typhoon Koryn in 1993”, Marine Environmental Observatory, Nantong, China, December 2011.
55. **Sheng, J.**, and J. Urrego-Blanco, “ Numerical Investigation of Interannual Variability of Circulation over the Eastern Canadian Continental Shelf”, Norwegian Meteorological Institute, University of Oslo, Oslo, Norway, May 2011.

54. **Sheng**, J., “Assessing farfield effects of tidal power extraction on the Bay of Fundy, Gulf of Maine and Scotian Shelf”, Southeast University, Nanjing, China, December 2010.
53. **Sheng**, J., “Assessing Far Field Effects of tidal Power Extraction on the Bay of Fundy, Gulf of Maine and Scotian Shelf”, Hohai University, Nanjing, China, December 2010
52. **Sheng**, J., “Improving our understanding of coastal dynamics using numerical ocean models”, Bedford Institute of Oceanography, March 2010.
51. **Sheng**, J., “Improving our understanding of coastal dynamics using numerical ocean models”, Department of Oceanography, Dalhousie University, January 2010.
49. **Sheng**, J., “Assessing the far-field effects of tidal power extraction on the Bay of Fundy, Gulf of Maine and Scotian Shelf”, OEER/OEGR workshop, January 2010.
48. **Sheng**, J., “Coastal ocean modeling and prediction”, Hohai University, Nanjing, China, April 2009.
47. **Sheng**, J., “Coastal ocean modeling and prediction”, Nanjing University, Nanjing, May 2009.
46. **Sheng**, J., “Coastal ocean modeling and prediction”, Ocean University of China, Qingdao, May 2009.
45. **Sheng**, J., “Coastal ocean modeling and prediction”, National Marine Environmental Forecast Center of China, Beijing, May 2009.
44. **Sheng**, J., “Coastal ocean modeling and prediction”, Institute of Water Resources and Hydropower of China, Beijing, July 2008.
43. **Sheng**, J., “A multidisciplinary ocean/modelling project in Lunenburg Bay of Nova Scotia”, University of Kiel, Germany, June 2008.
42. **Sheng**, J., L. Zhai and B. Yang, “Observational and numerical study of ocean dynamics over Canadian Atlantic coastal waters”, National Water Research Institute, Burlington, Canada, May 2008.
41. **Sheng**, J., “An interdisciplinary ocean observatory and development of coastal circulation models”, Tianjin University, China, May 2008.
40. **Sheng**, J., “An interdisciplinary ocean observatory and development of coastal circulation models”, Nanjing University, China, April 2008.
39. Zhai, L, and J. **Sheng**, “Baroclinic dynamics and variability of circulation and heat/salt contents in Lunenburg Bay of Nova Scotia”, Bedford Institute of Oceanography, September 2007.
38. Ohashi, K., J. **Sheng**, H. Ritchie, K. R. Thompson, and C. G. Hannah, “Simulating the three-dimensional circulation on the Scotian Shelf using Dalcoast3”, Bedford Institute of Oceanography, June 2007.
37. **Sheng**, J., B. Yang, and B. Hatcher, “Circulation and hydrographic structure in the Bras d’Or Lakes of Nova Scotia, a numerical study”, Bedford Institute of Oceanography, November 2006.
36. Zhao, J., and J. **Sheng**, “Study of circulation, dispersion, and retention in Lunenburg Bay of Nova Scotia using observations made by the Canadian Coastal Ocean Observatory and a nested-grid coastal

circulation model”, International, Workshop on Coastal Observatories, Proudman Oceanographic Laboratory, Liverpool, UK, October 2006.

35. **Sheng**, J., “Assessing the performance of a coastal circulation model for a multidisciplinary ocean observatory in Lunenburg Bay, Nova Scotia”, Proudman Oceanographic Laboratory, Liverpool, UK, July 2006.
34. **Sheng**, J., “An interdisciplinary ocean observatory and development of a high-resolution coastal circulation model”, Nanjing University, Nanjing, China, January 2006.
33. **Sheng**, J., “An interdisciplinary ocean observatory and development of a high-resolution coastal circulation model”, Nanjing Hydraulic Research Institute, Nanjing, China, July 2005.
32. **Sheng**, J., “An interdisciplinary ocean observatory and development of a high-resolution coastal circulation model”, Zhoujian River Conservancy Commission, Guangzhou, China, July 2005.
31. **Wang**, L., and **Sheng**, J., “An interdisciplinary ocean observatory and development of a high-resolution coastal circulation model”, Hohai University, Nanjing, China, June 2005.
30. **Sheng**, J., “Numerical study of the upper ocean response of the Scotian Shelf to Hurricane”, Hohai University, Nanjing, China, June 2005.
29. **Sheng**, J., “Numerical study of circulation, dispersion and connectivity of surface waters in the Belizean shelf of the northwestern Caribbean Sea”, Institute for Marine Remote Sensing, University of South Florida, February 2005.
28. **Sheng**, J., and L. Tang, “Numerical study of circulation, dispersion and connectivity of surface waters in the Belizean shelf of the northwestern Caribbean Sea”, Department of Oceanography, Dalhousie University, February 2005.
27. **Sheng**, J., “Numerical study of upper ocean response of the Scotian Shelf to Hurricane Juan”, Bedford Institute of Oceanography, Canada, October 2004.
26. **Sheng**, J. “Numerical modeling of circulation and thermal structure in Lake Huron and Georgian Bay”, National Water Research Institute, Burlington, Canada, July 2004.
25. Mercer, D., J. **Sheng**, and R. J. Greatbatch, Tsunami-like waves generated by the Great Hurricane of 1938, 2nd International Workshop on Extra-tropical Transition (ET), Halifax, Canada 2004.
24. **Sheng**, J., “A two-way nested ocean circulation model for the western Caribbean Sea”, Hohai University, Nanjing, China, May 2003.
23. **Sheng**, J., and L. Wang, “A numerical study of tidal circulation in Lunenburg Bay”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, April 2003.
22. **Sheng**, J., “A two-way nested ocean circulation model for the Meso-American Barrier Reef System”, Proudman Oceanographic Laboratory, Liverpool, UK, February 2003.
21. **Sheng**, J., “Hydrodynamic models for ECONAR”, International Workshop on Reef Connectivity, Akumal, Mexico, January 2003.

20. **Sheng, J.**, “IAS modelling in Canada”, International Workshop on Assessing GODAE Fields for the IAS and its Coastal Zones, Barbados, November 2002.
19. **Sheng, J.**, “Numerical study of circulation and seasonal variability over the Western Caribbean Sea”, Bedford Institute of Oceanography, Canada, September 2002.
18. **Sheng, J.**, “Numerical study of circulation and seasonal variability over the Western Caribbean”, Scripps Institution of Oceanography, La Jolla, USA, August 2002.
17. **Sheng, J.**, and L. Tang, “A three-dimensional ocean circulation model of the Western Caribbean Sea”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, May 2002.
16. **Sheng, J.**, “Numerical study of circulation and seasonal variability over the Western Caribbean Sea”, University of Maine, USA, April 2002.
15. **Sheng, J.**, “Circulation over the eastern Canadian Shelf”, CFCAS Workshop on Marine Environmental Prediction, Halifax, Canada, 2001.
14. Mercer, D., J. **Sheng** and R. J. Greatbatch, “Barotropic waves generated by storms moving rapidly over shallow water”, International Workshop on Operational Marine Forecasting, Dartmouth, Canada, 2001.
13. **Sheng, J.**, “Barotropic waves generated by storms moving rapidly over the Grand Banks”, Bedford Institute of Oceanography, Canada, November 2001.
12. Mercer, D., J. **Sheng**, R. J. Greatbatch and J. Bobanovic, “Barotropic waves generated by rapidly moving storms”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, September 2001.
11. **Sheng, J.**, “Circulation and drift pathways in the northwest Atlantic Ocean”, Hohai University, Nanjing, China, July 2001.
10. **Sheng, J.**, “Circulation and drift pathways in the northwest Atlantic Ocean”, National Research Center for Marine Environment Forecasts, Beijing, China, June, 2001 and August 2001.
9. **Sheng, J.**, “Circulation and drift pathways in the northwest Atlantic Ocean”, Department of Oceanography, Dalhousie University, Canada, January 2001.
8. **Sheng, J.**, “Seasonal variability in the northwest Atlantic Ocean”, Bedford Institute of Oceanography, Canada, May 2000.
7. **Sheng, J.**, “Seasonal variability in the northwest Atlantic Ocean”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, May 2000.
6. **Sheng, J.**, “Dynamics of a buoyancy-driven coastal Jet: The Gaspé Current”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, April 1999.
5. **Sheng, J.**, “Predicting subtidal circulation over the eastern Canadian seaboard”, Physical Oceanography and Meteorological Seminar Series, Dalhousie University, Canada, September 1998.
4. **Sheng, J.**, “Progress in modelling shelf circulation with CANDIE”, Workshop on Data Assimilative Modelling of the Coastal Ocean, Halifax, Canada, 1998.

3. **Sheng, J.**, “Predicting subtidal circulation over the eastern Canadian seaboard”, Department of Oceanography, Dalhousie University, Canada, September 1998.
2. **Sheng, J.**, “Predicting subtidal circulation over the eastern Canadian seaboard”, Department of Physics, Memorial University, Canada, May 1997.
1. **Sheng, J.**, “Assimilating coastal sea-levels and current-meter data into a 3D shelf model”, Bedford Institute of Oceanography, Canada, January 1997