

Dr. Tomoya Shibayama is a Professor of Coastal Engineering at Department of Civil and Environmental Engineering, Waseda University in Tokyo, Japan. He is one of the leaders of tsunami and storm surge disaster mitigation studies in Japan. He uses hydraulic laboratory experiments, field surveys and numerical simulations for the study. He served as team leaders of survey teams for all major tsunami and storm surge events in these ten years. After Tohoku tsunami, Waseda University established Composed Crisis Research Institute and appointed him as the director of the institute.

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CURRICULUM VITAE

1. PERSONAL INFORMATION:

Name : Tomoya Shibayama
Nationality : Japanese
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2. ACADEMIC DEGREES

DEGREES	UNIVERSITY	COUNTRY	YEAR
Dr. Eng., Coastal Engineering and Hydraulics in Civil Engineering,	University of Tokyo	Japan	1985
M.E., Civil Engineering,	University of Tokyo	Japan	1979
B.E., Civil Engineering	University of Tokyo	Japan	1977

3. ACADEMIC EXPERIENCE

April 2009 – present : Professor, Department of Civil and Environmental Engineering, Waseda University. Research interests and teaching subjects include Tsunami and Storm Surge Disaster, Coastal and Ocean Engineering.

August 1997 – March 2009 : Professor, Department of Civil Engineering, Yokohama National University.

April 1987 - July 1997: Associate Professor, Department of Civil Engineering, Yokohama National University.

August 1990 - August 1991: Associate Professor, Division of Water Resources Engineering, Asian Institute of Technology seconded by the Japanese Government.

March 1986 - March 1987: Associate Professor, Department of Civil Engineering, University of Tokyo.

May 1985 - February 1986: Assistant Professor, Department of Civil Engineering, University of Tokyo.

April 1981 - April 1985: Research Associate, Department of Civil Engineering, University of Tokyo.

4. Major Research Field

Coastal Engineering, Tsunami and Storm Surge, Coastal Disaster Preventions

5. Present Positions:

Professor of Civil and Environmental Engineering, Faculty of Science and Engineering,
Waseda University

Director, Composed Crisis Research Institute, Institute for Research on Reconstruction
from the Great East Japan Earthquake, Waseda University

Professor Emeritus at Yokohama National University

Professional Society: (Present Positions)

Advisor to Ocean Engineering Committee, Japan Society of Civil Engineers

Advisor to Coastal Engineering Committee, Japan Society of Civil Engineers

Formerly, he was the Editor in Chief, Coastal Engineering Journal (CEJ) published from
World Scientific and Japan Society of Civil Engineers form 2004 to 2008.

Engineering Licenses:

Professional Engineer (PE) in Construction, Japan

Executive Professional Civil Engineer, Japan Society of Civil Engineering (JSCE)

6. Recent Funding as a Principal Investigator

The Strategic Research Foundation Grant-aided Project for Private Universities from Ministry
of Education, Science and Culture, No.S1311028, 2013-2019, 125,000,000 JP Yen,
“Creation of New International Research Platform for Natural Disaster Reduction”.

Grant-in-Aid for Scientific Research (B) No.22404011, Japan Society of Promotion of
Science, 2010-2015, 16,770,000 Jp yen, “Survey of coastal disaster vulnerability in
Asia and Africa.”

Waseda University Research Initiative Grant, 2011-2016, 24,000,000 Jp Yen, “Research on Reconstruction from the Great East Japan Earthquake “

7. Graduate Students Supervision

23 doctoral student supervision as a principal academic supervisor

93 Master student supervision as a principal academic supervisor

8. Scientific Publications in English :

Book

1. Shibayama, T., Coastal Processes—Concepts of Coastal Engineering and Their Applications to Multifarious Environments, 2009, World Scientific, 215p..
2. Esteban, M., Takagi, H., Shibayama, T. (editors): Handbook of Coastal Disaster Mitigation for Engineers and Planners, 2015, Elsevier, 788p.

Scientific Papers

1. Samsami, F., Soltanpour, M. & Shibayama, T. (2015): Spectral analysis of irregular waves in wave-mud and wave-current-mud interactions, *Ocean Dynamics*, in press. [doi:10.1007/s10236-015-0864-4]
2. Esteban, M., Valenzuela, V. P. Yun, N. Y., Mikami, T., Shibayama, T., Matsumaru, R., Takagi, H., Thao, N. D., De Leon, M., Oyama, T. & Nakamura, R. (2015): Typhoon Haiyan 2013 Evacuation Preparations and Awareness, *International Journal of Sustainable Future for Human Security*, in press.
3. Takagi, H., Esteban, M., Shibayama, T., Mikami, T., Matsumaru, R., Leon, M. D., Thao, N. D., Oyama, T. & Nakamura, R. (2015): Track analysis, simulation, and field survey of the 2013 Typhoon Haiyan storm surge, *Journal of Flood Risk Management*, in press. [doi:10.1111/jfr3.12136]
4. Soltanpour, M., Haghshenas, S. A. & Shibayama, T. (2015): A two-dimensional experimental-numerical approach to investigate wave transformation over muddy beds, *Ocean Dynamics*, 65(2), 295–310. [doi:10.1007/s10236-014-0797-3]
5. St-Germain, P., Nistor, I., Townsend, R. & Shibayama, T. (2014): Smoothed-Particle Hydrodynamics Numerical Modeling of Structures Impacted by Tsunami Bores, *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 140(1), 66–81. [doi:10.1061/(ASCE)WW.1943-5460.0000225]
6. Jayaratne, M. P. R., Rahman, M. R. & Shibayama, T. (2014): A Cross-shore Beach Profile Evolution Model, *Coastal Engineering Journal*, 56(4), 1450020. [doi:10.1142/S057856341450020X]
7. Tasnim, K. M., Shibayama, T., Esteban, M., Takagi, H., Ohira, K. & Nakamura, R. (2014): Field observation and numerical simulation of past and future storm surges in the Bay of Bengal: case study of cyclone Nargis, *Natural Hazards*, 75(2), 1619-1647 [doi:10.1007/s11069-014-1387-x]
8. Esteban, M., Jayaratne, R., Mikami, T., Morikubo, I., Shibayama, T., Thao, N., Ohira, K., Ohtani, A., Mizuno, Y., Kinoshita, M. & Matsuba, S. (2014): Stability of Breakwater Armour

- Units Against Tsunami Attack, *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 140(2), 188-198. [[doi:10.1061/\(ASCE\)WW.1943-5460.0000227](https://doi.org/10.1061/(ASCE)WW.1943-5460.0000227)]
9. Mikami, T., Shibayama, T., Esteban, M., Ohira, K., Sasaki, J., Suzuki, T., Achiari, H. & Widodo, T. (2014): Tsunami vulnerability evaluation in the Mentawai islands based on the field survey of the 2010 tsunami, *Natural Hazards*, 71(1), 851-870. [[doi:10.1007/s11069-013-0936-z](https://doi.org/10.1007/s11069-013-0936-z)]
 10. Aranguiz, R., Shibayama, T. & Yamazaki, Y. (2014): Tsunamis from the Arica-Tocopilla source region and their effects on ports of Central Chile, *Natural Hazards*, 71(1), 175-202. [[doi:10.1007/s11069-013-0906-5](https://doi.org/10.1007/s11069-013-0906-5)]
 11. Aranguiz, R. & Shibayama, T. (2013): Effect of Submarine Canyons on Tsunami Propagation: A Case Study of the Biobio Canyon, Chile, *Coastal Engineering Journal*, 55(4), 1350016 (23 pages). [[doi:10.1142/S0578563413500162](https://doi.org/10.1142/S0578563413500162)]
 12. Rattanapitikon, W. & Shibayama, T. (2013): Verification and extension of Goda formulas for computing representative wave heights transformation, *Coastal Engineering Journal*, 55(3), 1350009 (23 pages). [[doi:10.1142/S0578563413500095](https://doi.org/10.1142/S0578563413500095)]
 13. Esteban, M., Tsimopoulou, V., Mikami, T., Yun, N. Y., Suppasri, A. & Shibayama, T. (2013): Recent Tsunamis Events and Preparedness: Development of Tsunami Awareness in Indonesia, Chile and Japan, *International Journal of Disaster Risk Reduction*, 5, 84-97. [[doi:10.1016/j.ijdrr.2013.07.002](https://doi.org/10.1016/j.ijdrr.2013.07.002)]
 14. Shibayama, T., Esteban, M., Nistor, I., Takagi, H., Nguyen, D. T., Matsumaru, R., Mikami, T., Aranguiz, R., Jayaratne, R. & Ohira, K. (2013): Classification of Tsunami and Evacuation Areas, *Natural Hazards*, 67(2), 365-386. [[doi:10.1007/s11069-013-0567-4](https://doi.org/10.1007/s11069-013-0567-4)]
 15. Esteban, M., Takagi, H. & Shibayama, T. (2012): Modified Heel Pressure Formula to Simulate Tilting of a Composite Caisson Breakwater, *Coastal Engineering Journal*, 54(4), 1250022 (21 pages). [[doi:10.1142/S0578563412500222](https://doi.org/10.1142/S0578563412500222)]
 16. Mikami, T., Shibayama, T., Esteban, M. & Matsumaru, R. (2012): Field survey of the 2011 Tohoku Earthquake and Tsunami in Miyagi and Fukushima Prefectures, *Coastal Engineering Journal*, 54(1), 1250011 (26 pages). [[doi:10.1142/S0578563412500118](https://doi.org/10.1142/S0578563412500118)]
 17. Esteban, M., Webersik, C., Shibayama, T. : “Methodology for the Estimation of the Increase in Time Loss Due to Future Increase in Tropical Cyclone Intensity in Japan”, *Journal of Climatic Change*, 2010.
 18. Rattanapitikon, W. and Shibayama, T.: Energy disipation model for computing transformation of spectral significant wave height, *Costal Engineering Journal*, 52(4), 305-330, 2010.
 19. Esteban, M., Takagi, H. and Shibayama, T. (2009):Methodology for the Simulation of the Construction of a Breakwater Taking into Account Climate and Construction Accident Risks, *Coastal Engineering Journal*, Vol. 51, No.1, pp 49-68, 2009.
 20. Esteban, M., Webersik, C. and Shibayama, T. :Effect of a Global Warming Induced Increase in Typhoon Intensity in Urban Productivity in Taiwan”, *Journal of Sustainability Science*. 4(2): 151-163, 2009.
 21. Mohsen Soltanpour, Ali Oveysy and Tomoya Shibayama, Numerical Modeling of Wave Transformation on Muddy Coasts, *Coastal Engineering Journal*,50(2), 143-160, 2008.
 22. Joel Nobert and Tomoya Shibayama, Integrated Model for Estimating Sediment Discharge to Coastal Area from River Basin -A Case Study of Sakawa River, *Journal of Global Environment Engineering*, 12, 13-32, 2007

23. Mohsen Soltanpour, Tomoya Shibayama and Yugo Masuya, Irregular wave attenuation and mud mass transport, *Coastal Engineering Journal*, 49(2), 127-147, 2007
24. Winyu Rattanapitikon and Tomoya Shibayama, Estimation of shallow water representative wave heights, *Coastal Engineering Journal*, 49(3), 291-310, 2007
25. Miguel Esteban, Hiroshi Takagi and Tomoya Shibayama, Improvement in Calculation of Resistance Force on Caisson Sliding due to Tilting, *Coastal Engineering Journal*, 49(4), 417-441, 2007.
26. Matiko Samson and Tomoya Shibayama, Management of pavement network maintenance and rehabilitation planning using shuffled complex evolution, *JSCE, Journal of Construction Management and Engineering*, Vol. 14, pp. 143-153, 2007.
27. Winyu Rattanapitikon and Tomoya Shibayama, Breaking wave formulas for breaking depth and orbital to phase velocity ratio, *Coastal Eng. Journal*, 48(4), 395-416, 2006.
28. Rattanapitikon, W., T. Vivattanasirisak and T. Shibayama, A Proposal of New Breaker Height Formula, *Coastal Engineering Journal, JSCE*, 45(1), 29-48, 2003.
29. Le, Trung Tuan and T. Shibayama, Application of GIS to Evaluate Long-term Variation of Sediment Discharge to Coastal Environment, *Coastal Engineering Journal, JSCE*, 45(2), 275-293, 2003.
30. Soltanpour, M., T. Shibayama and T. Noma, Cross-Shore Mud Transport and Beach Deformation Model, *Coastal Engineering Journal, JSCE*, 45(3), 363-386, 2003.
31. Rattanapitikon, W., R. Karunchintadit and T. Shibayama, Irregular Wave Height Transformation Using Representative Wave Approach, *Coastal Engineering Journal, JSCE*, 45(3), 489-510, 2003.
32. Rattanapitikon, W. and T. Shibayama, Simple Model for Undertow Profile, *Coastal Engineering Journal, JSCE*, 42(1), 1-30, 2000.
33. Rattanapitikon, W. and T. Shibayama, Verification and Modification of Breaker Height Formulas, *Coastal Engineering Journal, JSCE*, 42(4), 389-406, 2000.
34. Shibayama, T. and I. Nistor, Modelling of Time-Dependent Sand Transport at the Bottom Boundary Layer in the Surf Zone, *Coastal Engineering Journal, JSCE*, 40(3), 241-263, 1998.
35. Nguyen, T. Duy and T. Shibayama, A Convection-Diffusion Model for Suspended Sediment in the Surf Zone, *JGR, Ocean*, 102(C10), 23169-23186, 1997.
36. Shibayama, T. and Nguyen T. Duy, A 2-D Vertical Model for Wave and Current in the Surf Zone Based on the Turbulent Flow Equations, *Coastal Engineering in Japan, JSCE*, 37(1), 41-66, 1994.
37. Sato, S., M. Ozaki, and T. Shibayama, Breaking Conditions of Composed and Random Waves, *Coastal Engineering in Japan, JSCE*, 33(2), 133-144, 1990.
38. Sato, S., K. Homma, and T. Shibayama, Laboratory Study on Sand Suspension due to Breaking Waves, *Coastal Engineering in Japan, JSCE*, 33(2), 219-232, 1990.
39. Shibayama, T., S. Sato, H. Asada, and T. Temmyo, Sediment Transport Rate in Wave-Current Coexistent Field, *Coastal Engineering in Japan, JSCE*, 32(2), 161-172, 1989.
40. Sato, S., T. Isayama, and T. Shibayama, Long-Wave Component in Near-Bottom Velocities under Random Waves on a Gentle Slope, *Coastal Engineering in Japan, JSCE*, 32(2), 149-160, 1989.

41. Shibayama, T., H. Takikawa, and K. Horikawa, Mud Mass Transport due to Waves, Coastal Engineering in Japan, 29, 151-161, 1986.
42. Shibayama, T. and K. Horikawa, A Numerical Model for Two-Dimensional Beach Transformation, Proc. of Japan Society of Civil Engineers, No. 357, II-3, 167-176, 1985.
43. Shibayama T. and K. Horikawa, Sediment Suspension due to Breaking Waves, Coastal Engineering in Japan, 25, 163-176, 1982.
44. Shibayama, T. and K. Horikawa, Laboratory Study on Sediment Transport Mechanism due to Wave Action, Proc. of Japan Society of Civil Engineers, No. 296, 131-141, 1980.
45. Shibayama, T. and K. Horikawa, Bed Load Measurement and Prediction of Two-Dimensional Beach Transformation due to Waves, Coastal Engineering in Japan, 23, 179-190, 1980.

Conference Proceedings

1. Tasnim, K. M., Ohira, K., Shibayama, T. & Esteban, M. (2014): Numerical Simulation of Cyclonic Storm Surges over the Bay of Bengal Using a Meteorology-Wave-Surge-Tide Coupled Model, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
2. Soltanpour, M., Samsami, F., Shibayama, T. & Yamao, S. (2014): Study of Irregular Wave-Current-Mud Interaction, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
3. Matsuba, S., Mikami, T., Jayaratne, R. & Shibayama, T. (2014): Analysis of Tsunami Behavior and the Effect of Coastal Forest in Reducing Tsunami Force around the Coastal Dykes, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
4. Jayaratne, R., Abimbola, A., Mikami, T., Matsuba, S., Esteban, M. & Shibayama, T. (2014): Predictive model for scour depth of coastal structure failures due to tsunamis, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
5. Aranguiz, R., Villagran, M., Esteban, M. & Shibayama, T. (2014): Tsunami Resonance in the Bay of Concepcion, Chile, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
6. Esteban, M., Mikami, T., Shibayama, T., Takagi, H., Jonkman, S. N. & Ledden, M. V. (2014): Climate change adaptation in Tokyo Bay: The case for a storm surge barrier, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
7. Mikami, T., Shunya, M. & Shibayama, T. (2014): Flow Geometry of Overflowing Tsunamis around Coastal Dykes, Proceedings of the 34th International Conference on Coastal Engineering (ICCE), Seoul, Korea.
8. Tasnim, K. M., Ohira, K. & Shibayama, T. (2012): Numerical Simulation of Cyclone SIDR Using a WRF-SWAN-Surge-Tide Coupled Model, Proceedings of International Sessions in Conference of Coastal Engineering, JSCE, Vol.3, 1-5. [coastal.jp]

9. Esteban, M., Rafael A. M., Morikubo, I., Mikami, T., Nguyen, D. T., Ohira, K. & Shibayama, T. (2012): Rebuilding Composite Breakwaters Following the 2011 Tohoku Tsunami: Lessons Learnt and Does It Make Sense to Reinforce?, Proceedings of International Sessions in Conference of Coastal Engineering, JSCE, Vol.3, 81-85. [coastal.jp]
10. Ohira, K., Shibayama, T., Esteban, M., Mikami, T., Takabatake, T. & Kokado, M. (2012): Comprehensive numerical simulation of waves caused by typhoon using a meteorology-wave-storm surge-tide coupled model, 33rd International Conference on Coastal Engineering (ICCE), Santander, Spain. [tdl.org]
11. Hoshino, S. Esteban, M., Mikami, T. & Shibayama, T. (2012): Climate change and coastal defences in Tokyo bay, 33rd International Conference on Coastal Engineering (ICCE), Santander, Spain. [tdl.org]
12. Esteban, M., Rafael A. M., Morikubo, I., Mikami, T., Nguyen, D. T., Ohira, K., Ohtani, A. & Shibayama, T. (2012): Stability of rubble mound breakwaters against solitary waves, 33rd International Conference on Coastal Engineering (ICCE), Santander, Spain. [tdl.org]
13. Mikami, T. & Shibayama, T. (2012): Numerical analysis of tsunami propagation on wide reef platform, 33rd International Conference on Coastal Engineering (ICCE), Santander, Spain. (poster presentation) [tdl.org]
14. Tomoya Shibayama, Takahito Mikami, Koichiro Ohira, Miguel Esteban, Jun Sasaki, Takayuki Suzuki, Hendra Achiari and Teguh Widodo: Field Survey of Tsunami Disaster on Sipora Island, Indonesia after Sumatra Earthquake 2010, Proc. 8th International Conf. On Coastal and Port Eng. In Developing Countries (COPEDEC), CD-Rom, 2012.
15. Ohira, K. and Shibayama, T. Wave behavior in Tokyo bay caused by a tsunami or long-period ground motion, Proc. of 6th Int. Conf. Coastal Structures, CD-Rom, 2011.
16. Mikami, T., Shibayama, T., Matsumaru, R., Takagi, H., Latu, F., Chanmow, I.: Field survey and analysis of tsunami disaster in the Samoan Islands 2009, Proc. of 6th Int. Conf. Coastal Structures, CD-Rom, 2011.
17. Takagi, H., Kashihara, Esteban, M. and Shibayama, T.: Assessment of future stability of breakwaters under climate change, Coastal Engineering Journal, 53(1), 21–39, 2011.
18. Shibayama, T.: Field Survey of the 2011 off the Pacific Coast of Tohoku Earthquake Tsunami Disaster and Future Tsunami Protections, Proceedings of the Sixth International Conference on Asian and Pacific Coasts (APAC 2011), 2011
19. Hoshino, S., Esteban, M., Mikami, T., Takabatake, T. and Shibayama, T.: Effect of sea level rise and increase in typhoon intensity on coastal structures in Tokyo bay, Proc. of 6th Int. Conf. Coastal Structures, CD-Rom, 2011.
20. Ohtani, A. & Shibayama, T. (2010): A dialogue analysis of consensus building meetings among experts of different disciplines, Annual Meeting of the Society for Social Studies of Science (4S), Tokyo, Japan.
21. Dorji Cheki and Tomoya Shibayama, Landslide susceptibility analysis using quantitative method with GIS for mountaneous road, Proc. of Global Environmental Eng., 16,15-25, 2008.
22. Nguyen Danh Thao and Tomoya Shibayama, Numerical Simulation of Wave Impact Pressure on Vertical Breakwater, APAC2007, 231-244, CD-Rom, 2007
23. Tomoya Shibayama, Jun Sasaki, Hiroshi Takagi, Hendra Achiari, Tsunami Disaster Survey After Central Java Tsunami in 2006, APAC2007, 788-793, CD-Rom, 2007

24. Miguel Esteban, Hiroshi Takagi and Tomoya Shibayama, Application of the Methodology for Risk Assessment of a Caisson Breakwater during Construction to Evaluate the Insurance Premium, APAC2007, 1675-1688, CD-Rom, 2007
25. Hiroshi Takagi, Tomoya Shibayama et al., An Expansion of the Reliability Design Method for Caisson-Type Breakwaters towards Deep Water Using the Fourth Order Approximation of Standing Waves, APAC2007, 1723-1735, CD-Rom, 2007
26. Miguel Esteban and Tomoya Shibayama, Evaluation of the active depth of foundations under a caisson breakwater subjected to impact waves, Coastal structures 2007, 123-126, CD-Rom, 2007
27. Dorji Cheki and Tomoya Shibayama, Determination of Risk Scores for Road Network in Bhutan, Journal of Research and Development, Royal University of Bhutan, 2007.
28. Matiko Samson and Tomoya Shibayama, Proposal of Simple pavement deterioration model by using in-service survey data, Proceedings of Japan-China 4th Workshop on Pavement Technologies, Sapporo Japan, pp. 297-306, 2007.
29. Tomoya Shibayama, A. Okayasu, J. Sasaki, N. Wijayatne, T. Suzuki, R. Jayaratne, Masimin, A. Zouhrawaty, and R. Matsumaru: Disaster survey of Indian ocean tsunami in south coasta of SriLanka and Aceh, Indonesia, Proc. of 30th Coastal Engineering Conference, ASCE, 1469-1476, 2006.
30. Miguel Esteban • Tomoya Shibayama, Laboratory Study on the Progression of Damage on Caisson Breakwaters Under Impact Waves, Techno-Ocean 2006, CD-Rom, 2006.
31. Le Van Cong • Tomoya Shibayama and Hiroshi Takagi, Topography Changes of Da Rang Coastal River Mouth, Shorelines and River Profile, Techno-Ocean 2006, CD-Rom.
32. Joel Nobert and Tomoya Shibayama, GIS-Based Estimation of Soil Erosion and Sediment Delivery to Coastal Environment from the River Basin. A Case Study of Rufiji River in Tanzania, APAC2005, 1695-1704, CD-Rom, 2005.
33. Mohsen Soltanpour, T. Shibayama, Yugo Masuya and Iman Sabzevari, Wave Attenuation and Mud Mass Transport under Irregular Waves, Proc. of Coastal Eng. Conf., ASCE, 29(2), 1851-1860, 2004.
34. T. Shibayama and M.P.R.Jayaratne, An Evaluation Method of Suspended Sediment Concentration in and Outside the Surf Zone, Proc. of Coastal Eng. Conf., ASCE, 29(2), 1715-1727, 2004.
35. Shibayama, T., Soft Mud Transport in Coastal Environment, Keynote in ICOPMAS Conf., Proc, 5-8, 2002.
36. Nguyen, The Duy, T. Shibayama and A. Okayasu, The Simulation of Swash Oscillations by a Breaking Waves Model, Proc. of Coastal Eng. Conf., ASCE, 28(1), 904-916, 2002.
37. Soltanpour, M. and T. Shibayama, Wave-Mud Interaction under Irregular Waves, Proc. of Coastal Eng. Conf., ASCE, 28(3), 2949-2958, 2002.
38. Jayaratne, Mantripathi P. R. and T. Shibayama, A Proposal of Numerical Simulation Model for Beach Processes in the Vicinity of Complex River Mouth, Proc. of the Fourth International Summer Symposium, JSCE, 159-162, 2002.
39. Okayasu, A., T. Teshirogi, H. Katayama, and T. Shibayama, Numerical Simulation of Oil Spill in Tokyo Bay by a Level-Layer Model, Proc. of APACE 2001, 1, 515-524, 2001.

40. Shibayama, T. and Le Trung Tuan, A Comparative Study of Coastal Processes in Asian Countries, Proc. of APACE 2001, 2, 909-917, 2001.
41. Shibayama, T. and I. Nistor, A Model of Sediment Transport in the Bottom Boundary Layer, Proc. of Coastal Eng. Conf., ASCE, 27, 134-147, 2000.
42. Nguyen The Duy, T. Shibayama and A. Okayasu, A Unified Numerical Model for the Bottom Boundary Layer and the Upper Layer in the Surf Zone, Proc. of Coastal Eng. Conf., ASCE, 27, 120-133, 2000.
43. Shaowu Li and T. Shibayama, Calculation of Wave-Induced Longshore Current in Surf Zone by Using Boussinesq Equations, Proc. of Coastal Eng. Conf., ASCE, 27, 334-345, 2000.
44. Rattanapitikon, W., Piyamarn Leangruxa and T. Shibayama, Energy Dissipation Formulas for Regular Breaking Waves, Proc. of 4th International Conf. on Hydrodynamics, 545-550, 2000.
45. Nistor, I and T. Shibayama, Random Wave Modelling Approach Included in a Beach Deformation Model, Proc. of Coastal Eng. Conf., ASCE, 26, 3008-3021, 1998.
46. Rattanapitikon, W. and T. Shibayama, Energy Dissipation Model for Regular and Irregular Breaking Waves, Coastal Engineering Journal, JSCE, 40(4), 327-346, 1998.
47. Rattanapitikon, W. and T. Shibayama, Energy Dissipation Model for Irregular Breaking Waves, Proc. of Coastal Eng. Conf., ASCE, 26, 112-125, 1998.
48. Nguyen, The Duy, T. Shibayama, and A. Okayasu, A 2-DV Numerical Solution for the Turbulent Wave Boundary Layer under Breaking Waves, Proc. of Coastal Eng. Conf., ASCE, 26, 484-497, 1998.
49. Nistor, I. and T. Shibayama, Beach Deformation Model under Irregular Waves, Offshore Mechanics and Arctic Engineering, OMAE Conf., 1997.
50. Okayasu, A., K. Hara, and T. Shibayama, Laboratory Experiments on 3-D Distribution of Nearshore Currents, Proc. of 24th Coastal Engineering Conference, ASCE, 2461-2475, 1994.
51. Nguyen, N. An and T. Shibayama, Mud Mass Transport under Waves and Currents, Proc. of 24th Coastal Engineering Conference, ASCE, 2913-2927, 1994.
52. Rattanapitikon, Winyu and T. Shibayama, Suspended Sediment Concentration Profiles under Non-Breaking and Breaking Waves, Proc. of 24th Coastal Engineering Conference, ASCE, 2813-2827, 1994.
53. Shibayama, T. and A. Yamada, A Numerical Model for Beach Deformation around River Mouth due to Waves and Currents, Proc. of 24th Coastal Engineering Conference, ASCE, 3295-3304, 1994.
54. Shibayama, T. and Nguyen N. An, A Visco-Elastic-Plastic Model for Wave-Mud Interaction, Coastal Engineering in Japan, JSCE, 36(1), 67-90, 1993.
55. Shibayama, T., A. Okayasu, and M. Kashiwagi, Long Period Wave and Suspended Sand Transport in the Surf Zone, Proc. of 23rd Coastal Engineering Conference, ASCE, 2438-2449, 1993.
56. Saito, E. and T. Shibayama, Local Scour around a Large Cylinder on the Uniform Bottom Slope, Proc. of 23rd Coastal Engineering Conference, ASCE, 2799-2810, 1993.
57. Shibayama, T. and W. Rattanapitikon, Vertical Distribution of Suspended Sediment Concentration in and outside Surf Zone, Coastal Engineering in Japan, JSCE, 36(1), 49-66, 1993.

58. Shibayama, T. and Pun K. L., Multi-Level Model for Hydrodynamic Circulation and Dispersion Process in Bays, Coastal Engineering in Japan, JSCE, 35(1), 49-66, 1992.
59. Shibayama, T. and Nguyen N. An, A Numerical Model for Transport of Soft Mud in the Coastal Environment, Proc of 3rd COPEDEC, 893-902, 1991.
60. Shibayama, T., E. Saito, and A. Okayasu, Effect of Long Waves to Local Sediment Transport Rate, Proc. of Coastal Sediments, ASCE, 129-138, 1991.
61. Shibayama T., M. Okuno, and S. Sato, Mud Transport Rate in Mud Layer due to Wave Action, Proc. of 22nd Coastal Engineering Conference, ASCE, 3037-3049, 1990.
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