

LIST OF SELECTED (English) PUBLICATIONS

Dr. Pavel TKALICH

JOURNAL PUBLICATIONS

1. Dao M.H., Tkalich P., Chan E.S., Megawati K. "*Tsunami propagation scenarios in South-China Sea*", **Journal of Asian Earth Sciences**, accepted.
2. Romano M., Dao M.H., Liong S.Y., Zemskyy P., Vu M.T., Tkalich P. "*Application of data-driven methods for tsunami forecasting*", **Journal of Asian Earth Sciences**, submitted. .
3. Sundarambal, P, S Y Liong, P Tkalich and P Jegathambal, "*Development of a Neural Network Model for Dissolved Oxygen in Seawater*", **Indian Journal of Marine Sciences**, submitted.
4. Sundarambal, P, S Y Liong and P Tkalich, "*ANN application for water quality forecasting*", **Marine Pollution Bulletin**, accepted.
5. Dao M.H., Tkalich P., Chan E.S. "*Tsunami forecasting using proper orthogonal decomposition method*", **Journal of Geophysical Research – Oceans**. 2008, V.113, C06019, doi:10.1029/2007JC004583.
6. Tkalich P. "*Hopping numerical approximations of the hyperbolic equation*". **Int. J. for Numerical Methods in Fluids**, 2007, V.55, N.12, pp. 1171-1188.
7. Dao M.H., Tkalich P. "*Tsunami propagation modelling – a sensitivity study*". **Natural Hazards and Earth System Sciences**, 2007, V.7, N.6, pp. 741–754.
8. Tkalich P., Dao M.H., Chan E.S. "*Tsunami propagation modeling and forecasting for early warning system*". **Journal of Earthquake and Tsunami**, 2007, V. 1, N. 1, pp. 87–98.
9. Tkalich P. "*Author's response to discussion of Derivation of high-order advection-diffusion schemes by Pavel Tkalich, 2006, J. Hydroinf. 8(3), 149–164*". **Journal of Hydroinformatics**, 2007, V.9, N. 2, pp.159-162.
10. Tkalich P. "*Derivation of high-order advection-diffusion schemes*". **Journal of Hydroinformatics**, 2006, V.8, N. 3, pp.149-164.
11. Polnikov V.G., Tkalich P. "*Influence of the wind waves dissipation processes on dynamics in the water upper layer*". **Ocean Modelling**, 2006, V.11, No.1-2, pp. 193-213.
12. Tkalich P. "*A CFD solution of oil spill problems*". **Environmental Modelling & Software**, 2006, V. 21/2, pp 271-282.
13. Tkalich P., Sundarambal P. "*Eutrophication modelling for Singapore waters*". **Singapore Maritime & Port Journal**, 2003, pp. 122-136.
14. Pang W.C., Tkalich P. "*Modeling tidal and monsoon driven currents in the Singapore Strait*". **Singapore Maritime & Port Journal**, 2003, pp. 151-162.
15. Tkalich P. and Chan E.S. "*The third-order polynomial method for two-dimensional convection and diffusion*". **Int. J. for Numerical Methods in Fluids**, 2003, V.41 (9), pp. 997-1019.
16. Tkalich P., Huda K., Gin K. "*A multiphase oil spill model*", **Journal of Hydraulic Research**, 2003, V.41(2), pp. 1-11.
17. Tkalich P. and Chan E.S. "*Vertical mixing of oil droplets by breaking waves*". **Marine Pollution Bulletin**. 2002, V.44 (11), pp. 1219-1229.

18. Tkalich P. and Chan E.S. “*Breaking wind-waves as a source of ambient noise*”. **J. Acoust. Soc. Am.**, 2002, V.112 (2), pp. 456-463.
19. Gin K., Huda K., Lim W.K., Tkalich P. “*An oil spill – food chain interaction model for coastal waters*”. **Marine Pollution Bulletin**, 2001, V.42, No.7, pp.590-597.
20. Heling R., M. Zheleznyak, W. Raskob, A. Popov, R. Borodin, D. Gofman, G. Lyashenko, A. Marinets, A. Pokhil, T. Shepeleva and P. Tkalich “*Overview of the Modelling of Hydrological Pathways in RODOS*”. **Radiation Protection Dosimetry**, 1997, V.73, No 1-4, pp.67-70.
21. Chen W., Tkalich P., Tan S.K. and Tay J.H. “*Assessment of heavy metals in aquatic sediments*”. **J. of Environm. Modeling & Assessment**, 1996, V.1, pp. 93-100.
22. Tkalich P., Chen W. and Tay J.H. “*Modeling of heavy metals in a reservoir with diffusive bottom layer*”. **J. Water Science and Technology**, 1996, V.34, Nos.7-8, pp.117-123.
23. Zheleznyak M.J., Tkalich P., Lyashenko G.V. and Marinets A.A. “*Aquatic dispersion models - first approaches to integration into the CEC Decision Support System based on post-Chernobyl experience*”. **Radiation Protection Dosimetry**, 1993, V.50, Nos.2-4, pp.235-243.
24. Zheleznyak M.J., Demchenko R.I., Khursin S.L., Kuzmenko Yu.I., Tkalich P., Vitjuk N.Ya. “*Mathematical modeling of radionuclide dispersion in the Pripjat-Dnieper aquatic system after the Chernobyl accident*”. **The Science of the Total Environment**. Amsterdam, Elsevier Science Publ., 1992, V.112, p.89-114.

CHAPTER IN A BOOK

1. Chan E.S., Tkalich P., Gin K., Obbard J. “*The physical oceanography of Singapore coastal waters and its implications for oil spills*”. (editor E. Wolanski) **The environment in Asia Pacific Harbours**, Springer, 2006, 497 p.

PROCEEDINGS

1. Sundarambal, P, S Y Liong and P Tkalich, “*Eutrophication modeling of Singapore seawater using Artificial Neural Networks*”, **Advances in Geosciences**, World Scientific Publishing Company, accepted.
2. P.Sundarambal, R.Balasubramanian, S.Karthikeyan and P.Tkalich, “*Atmospheric Deposition of Nutrients and its role on Coastal Eutrophication in Southeast Asia*”, (Eds. Yun-Tai Chen et al.) **Advances in Geosciences**, 2007, World Scientific Publishing Company, V.9, pp.149-166. (<http://www.worldscibooks.com/environsci/6494.html>).
3. Tkalich P. “*Large-time-step explicit Eulerian schemes for the hyperbolic equation solution*”. (Editor Liu G. R.) **Computational Methods**, Springer Netherlands, 2005, 1150 p., pp. 183-188.

CONFERENCES AND WORKSHOPS

1. Sundarambal P., R Balasubramanian and P Tkalich, “*Estimating Nutrients Loading From Atmospheric Deposition on Coastal Waters, South East Asia*”, 12th International Conference on Integrated Diffuse Pollution Management (**IWA DIPCON 2008**). (25-29 August 2008, Khon Kaen University, Thailand)

2. Sundarambal P., P Tkalich and R Balasubramanian, "*Modeling Studies of the Effect of Atmospheric Nitrogen Deposition on Marine Phytoplankton in Seawater, South East Asia*", 12th International Conference on Integrated Diffuse Pollution Management (**IWA DIPCON 2008**). (25-29 August 2008, Khon Kaen, Thailand)
3. Sundarambal P., P Tkalich and R Balasubramanian, "*Enhancement and Development of Water Quality Model (NEUTRO) for Atmospheric Deposition Loads*". **AOGS 2008** (Busan, Korea).
4. Tkalich P. Pokratath R. "*Analysis of sea level trends at Maldives with respect to global climate change*" Conference on Marine Problems and Specific Solutions, 15-18 June 2008, Maldives (**COMPASS-2008**).
5. Tkalich P., Pallayil V., Roopsekhar K., Zemskyy P., Raju D.K., Nesterov O., Sin T.M., Liong S.Y., Chang C.W., Chan E.S. "*Real-time monitoring and forecasting system for coastal zones*", **COMPASS-2008**.
6. Choo H.K., Nguyen T. C., Suresh N., Zemskyy P., Raju DK, Tkalich P. "*Tsunami warning system in Singapore*", **COMPASS-2008**.
7. Sundarambal P., Balasubramanian R., Tkalich P. "*Impacts of atmospheric nutrients deposition on aquatic ecosystems*", **COMPASS-2008**.
8. Sundarambal P., Dao M.H., Tkalich P. "*Modeling of hydrodynamic and water quality processes in coastal zones*", **COMPASS-2008**.
9. Sundarambal P., P Tkalich and R Balasubramanian, "*Numerical assessment of atmospherically promoted seawater phytoplankton production: Significance of wet deposition events of nitrogen compounds*", European Geosciences Union General Assembly (**EGU 2008**), 13-15 Apr 2008, Austria, Vienna.
10. Sundarambal P., S.Y.Liong, P.Tkalich and P.Thamarai, 2008. "*Modelling the factors that influence dissolved oxygen concentration of seawater using data driven technique*". Proceedings: International Conference on Resource Utilisation and Intelligent Systems, (**INCRUIS-2008**) Jan 3 - 5, 2008, India.
11. Tkalich P. "*Overview of Singapore Tsunami Research Program*", Workshop on a System Approach for Tsunami Warning and Hazard Mitigation in the South China Sea Region (South China Sea Tsunami Workshop 2007, **SCSTW 2007**), 5-7 Dec.2007, Taipei.
12. Dao M.H. and P. Tkalich, "*Tsunami Propagation Modeling - A Sensitivity Study*". Asia Oceania Geosciences Society, **AOGS** (30 Jul - 4 Aug 2007, Bangkok, Thailand).
13. P.Sundarambal, R.Balasubramanian, S.Karthikeyan and P.Tkalich, 2007. "*Estimating direct atmospheric nitrogen deposition onto a coastal waterbody in Southeast Asia and its bioavailability to coastal phytoplankton*", Proceedings: **Asia Oceania Geosciences Society** 4th Annual Meeting, Bangkok, 30 July - 4 Aug 2007, OS24-A0023.
14. Sundarambal Palani, Shie-Yui Liong and Pavel Tkalich, 2007. "*Artificial Neural Network Modeling of Chlorophyll a, Singapore Seawaters*", Proceedings: **Asia Oceania Geosciences Society** 4th Annual Meeting, Bangkok, 30 July - 4 Aug 2007, OS24-A0013.
15. Tkalich, P., Dao M.H., Chan E.S. "*Tsunami propagation modeling & forecasting*", International **Workshop on Recent Developments in Tsunami Modeling and Sensitivity Analysis**, April 25-27, 2007, Bremerhaven, Germany.

16. Tkalich, P., Dao M.H., Chan E.S. "*Tsunami Forecasting, Propagation modeling and early warning systems*", Proc. **Earthquakes and Tsunamis: from source to hazard**. NUS-TMSI Workshop, 7-9 March 2007. pp. 16.1-16.12.
17. Chan ES, P. Tkalich and V. Babovic "*Real Time Tracking of Suspended Sediment Transport in Coastal Waters*", Launching **Symposium for Journal of Hydro-environment Research**, Hong Kong, China, 18-19 January 2007.
18. Phoon, KK., Goh, SH., Liew, JYR, Liong, SY & Tkalich P. "*Disaster management in the new millennium: opportunities for research. of Singapore*", **50th ASAIHL Anniversary**, Symposium On The Future Role Of ASAIHL In The 21st Century, Jakarta, 4 – 7 December 2006.
19. Liong, S Y, X Zhu and P Tkalich, "*Extra Consideration of Wind Generated Wave for Urban Catchment Management*". International **Symposium of Combining Approaches in Computational Flow Analysis** of Urban Drainage and Stream Network, ed. Gye Woon CHOI (2006), 28 Nov 2006, University of Incheon, Korea, Incheon, South Korea, pp. 55-64.
20. Zemskyy P., Tkalich P., Chan E.S. "*Integrated Oceanographic Monitoring and Forecasting System*", Proc. **AOGS 2006** (Asia Oceania Geosciences Society 3rd Meeting), 10 - 14 July, 2006, Singapore, p. 423/1202.
21. Zhu X., Liong S.-Y., Tkalich P., Doan C. D. "*Wind-Waves Forecast Using SWAN with Data Driven Technique*", Proc. **AOGS 2006**, p. 422/1202.
22. Sundarambal P., Rajasekhar B., Sathrugnan K., Tkalich P. "*Coastal Eutrophication in Southeast Asia: Importance of Atmospheric Deposition of Nutrients*", Proc. **AOGS 2006**, p. 50/1202.
23. Sundarambal P., Liong S.-Y., Tkalich P. "*Prediction of Singapore Seawater Quality Variables with Artificial Neural Networks*", Proc. **AOGS 2006**, p. 148/1202.
24. Zhu X.Z., Tkalich P., Chan E.S. "*Simulation of Typical Wind-Waves Characteristics in Singapore Strait*". Proc. **Oceans'06 IEEE Asia Pacific**, 16-19 May 2006, ISBN: 978-1-4244-0138-3.
25. Dao M.H., Doan C.D., Tkalich P., Liong S.Y. "*Ocean hydrodynamics model with tidal forcing derived using an Artificial Neural Network*". Proc. **Oceans'06 IEEE Asia Pacific**, 16-19 May 2006.
26. Nesterov O., Tkalich P. "*Hydrodynamics and water quality modeling of Singapore and Johor Straits with SLON model.*". Proc. **XXXI IAHR Congress**, 11-16 September 2005, Seoul, Korea, pp. 4259-4267 (CD).
27. Nesterov O., Tkalich P. "*SLON model and its applications to Singapore and Johor Straits*". Proc. **AOGS 2005** (Asia Oceania Geosciences Society 2nd Meeting), 20 - 24 June, 2005, Singapore.
28. Sundarambal P., Tkalich P. "*Assessment of accidental nutrient spills from ships into the Singapore marine environment*". Proc. **AOGS 2005**.
29. Sundarambal, P, P. Thamarai and P Tkalich, "*Modeling of Groundwater Flow and Contaminant Migration*". Proc. **AOGS 2005**.
30. Zemskyy P., Tkalich P. "*Web-based hydrodynamic forecast system for Singapore Strait*". Proc. **AOGS 2005**.
31. Nesterov O., Tkalich P. "*SLON, Coastal hydrodynamics and water quality model*". Proc. **4th EuroGOOS Conference**, 6 - 9 June 2005, Brest, France.

32. Tkalich P. “*Large-time-step explicit Eulerian schemes for the hyperbolic equation solution*”. Proc. **International Conference of Computational Methods**, 15-17 Dec. 2004, Singapore.
33. Pang W.C., Tkalich P. “*Semi-Implicit Sigma-Coordinate Hydrodynamic Model*”. Proc. **14th IAHR-APD Congress**, 15 - 18 Dec. 2004, Hong Kong.
34. Pang W.C., Tkalich P., Zemskyy P. “*Hydrodynamics of Singapore Strait*”. Proc. **Joint AOGS & APHW Conference**, 5-9 July 2004, Singapore, pp.453.
35. Bird M., Tkalich P., Pang W.C. “*The origin of the Straits of Singapore*”. Proc. **Joint AOGS & APHW Conference**, 5-9 July 2004, Singapore, pp.577.
36. Tkalich P., Sundarambal P. “*Nutrient dynamics in Singapore coastal water*”. Proc. **Joint AOGS & APHW Conference**, 5-9 July 2004, Singapore, V.1, pp. 756-757.
37. Wu S., Tkalich P. “*High order upwind shock-capturing schemes with modified WENO method*”. Proc. **2nd Int. Conf. on Scientific & Engineering Computation**, 30 June – 02 July 2004, Singapore, 5pp.
38. Chan E.S., Tkalich P. “*Towards forecasting of Singapore marine environment*” (keynote). Proc. **6th Int. Conf. on Hydroinformatics**, 21-24 June 2004, Singapore, V.1, p. 13.
39. Tkalich P., Zemskyy P., Pang W.C., Chan E.S. “*Coastal hydrodynamics forecast system*”. Proc. **6th Int. Conf. on Hydroinformatics**, 21-24 June 2004, Singapore, V.1, pp. 391-398.
40. Sundarambal P. and Tkalich P. “*Eutrophication modelling for Singapore waters*”. Proc. **Int. Conf. on Port and Maritime R&D and Technology**, 10-12 September 2003, Singapore, V.2, pp. 51-58.
41. Tkalich P. “*Vertical Dispersion of Oil Droplets*”. Proc. of **26th Arctic and Marine Oilspill Program (AMOP) Technical Seminar**, 10 – 12 June 2003, Victoria, British Columbia, Canada, V.2, pp. 911-925.
42. Tkalich P. “*The third-order accurate polynomial method for the convective terms approximation*”. Proc. **XXX IAHR Congress**, 24-29 August 2003, Thessaloniki, Greece, Theme A, pp. 579-586.
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49. Tkalich P. "*Numerical simulation of oil spills and oil combating techniques*". Proc. Conf. **Oil and Hydrocarbon Spills II (OIL SPILL 2000)**, 20-22 September 2000, Las Palmas de Gran Canaria, SPAIN, pp. 51-59.
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51. Tkalich, P. and Chan, E.S. "*Breaking waves and its impact on underwater acoustics*". Proc. **Naval Platform Technology Seminar' 99**, 15 Oct. 1999, The Rutherford Science Park, Singapore, 6p.
52. Tkalich P., Huda K., Gin K. "*A multiphase model of oil spill dynamics*". Proc. **XXVIII IAHR Congress**, 22-27 August 1999, Graz, Austria.
53. Huda K., Tkalich P., Gin K. "*A 3-D multiphase oil spill model*". Proc.Int. Conf. **Oceanology International'99** Pacific Rim, Singapore , 27-29 April 1999, pp.143-150.
54. Gin K. and Tkalich P. "*A three-dimensional eutrophication model for Singapore's coastal waters*". Proc. Asia Pacific Conference on **Environmental Strategies for the 21-St Century**. Singapore, 8-10 April 1998, p.280-286.
55. Tkalich P. and Chan E.S. "*On mechanism of wind-wave noise generation*". Proc. **OCEANS'98** Conference, 28 Sep. - 1 Oct. 1998, Nice, FRANCE, 1998, pp.1378-1381.
56. Tkalich P, Gin K. and Chan E.S. "*Coastal research at the confluence of two oceans*". **EOS Transactions**, American Geophysical Union, V.79, No.24, 1998, p.W48.
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61. Popov A., Borodin R., Pokhil A., Zheleznyak M., Gofman D., Lyashenko G., Marinets A., Shepeleva T., Tkalich P., Heling R., Raskob W. "*Overview of the modelling of hydrological pathways in RODOS*". Proc. **6th Topical Meeting on Emergency Preparedness and Response**, San Francisco, Calif., April 22-25, 1997 Livermore: Lawrence Livermore Nat.Lab.,1997, pp.419-422 .
62. Tkalich P., Chen W. and Tay J.H. "*Modeling of heavy metals in a reservoir with diffusive bottom layer*". Proc. **18th IAWQ Intern. Conf.**, 23-28 June 1996, Singapore, pp.368-375.
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64. Zheleznyak M., Heling R., Raskob W., Popov A., Borodin R., Gofman D., Lyashenko G., Marinets A., Pokhil A., Shepeleva T., Tkalich P. "*Modelling of hydrological pathways in*

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65. Raskob W., Heling R., Tkalich P., Popov A. "*The modelling concept of the radioactive contamination of waterbodies in RODOS, the Decision Support System for nuclear emergencies in Europe*". Proc. International Seminar on **Freshwater and Estuarine Radioecology**, Lisbon, Portugal, March 21 - 25 1994.
 66. Tkalich P., Zheleznyak M.J., Lyashenko G.B., Marinets A.V. "*RIVTOX - Computer code to Simulate radionuclide transport in rivers*". Proc. X International Conference on **Computational Methods in Water Resources**. Heidelberg, Germany. 1994. Eds. Peters, Wittum, Herrling, and Meissner. Kluwer Academic Pub., 1994/07, pp 1173-1180.
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 70. Zheleznyak M.J., Demtchenko R.J., Khursin S.L., Kuzmenko Yu.L. and Tkalich P. "*Mathematical modelling of radionuclide dispersion in water bodies of the Chernobyl NPP zone and in the Dnieper Reservoirs*". Technical Papers UNESCO/CEC/IAEA Workshop on **Hydrological Impact of Nuclear Power Plant Systems**. Paris, 23-25 September, 1992, pp.15-18.
 71. Morozov A.A. Zheleznyak M.J. and Tkalich P. "*Mathematical modeling of radionuclide dispersion in the Dnieper reservoirs*". Abstr. Int. Symp. on **Geophysical Hazards in Developing Countries and their Environmental Impacts**. August 4-9, 1991, Perugia - Italy, Univ. for Foreigners Publ., 1991, p.127.
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