

BIBLIOGRAPHY

- Abbott, P. L. (2003). *Natural disasters*, 3rd Ed., McGraw-Hill, New York.
- Airy, G. B. (1845). "On the laws of the tides on the coasts of Ireland, as inferred from an extensive series of observations made in connexion with the Ordnance Survey of Ireland." *Philos. Trans. R. Soc. London*, 1—124.
- Albin, S. (1997). "Building a system dynamics model part I: conceptualization." Working Paper No. D-4597, System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Annunziato, A., and C. Best. (2005). "The tsunami event: Analyses and models." <<http://tsunami.jrc.it/model/simulation.pdf>> (Otc. 6, 2006).
- Aswarangkul, U. (2005). "Scare reveals evacuation plan flaws." *The Nation*, 30 March 2005.
- Banerjee, S. (2005). "On geodetic distance computations in spatial modeling." *Biometrics*, 61, 617—625.
- Barlas, Y. (1989). "Multiple tests for validation of system dynamics type of simulation models." *European Journal of Operational Research*, 42(1989), 59—87.
- Barlas, Y. (1990). "An autocorrelation function-test for output validation." *Simulation*, 55(1), 7—16.
- Barlas, Y. (1996). "Formal aspects of model validity and validation in system dynamics." *System Dynamics Review*, 12(3), 183—210.
- Barlas, Y., and Carpenter, S. (1990). "Philosophical root of model validation: two paradigms." *System Dynamics Review*, 6(2), 148—166.
- Barman, R., Kumar, B. P., Pandey, P. C., and Dube, S. K. (2006). "Tsunami travel time prediction using Neural Networks." *Geophys. Res. Lett.*, 33(16).
- Beveridge, W.I.B. (1990). *The Art of Scientific Investigation*, Vintage Books, New York.
- Bilham, R. (1999). "Slip parameters for the Rann of Kachchh India, 16 June, 1819 earthquake quantified from contemporary accounts." *Geological Society London*, 146, 295—318.
- Bilham, R. (2005). "A flying start, then a slow slip." *Science*, 308, 1126—1127.
- Bird, J., and Zygmunt, L. (2005). "Managing tsunami risk." *World Report*, 365, 271—273.
- Bjorkman, H., Pinoi, N., Funge-Smith, S., Winichagoon, P., Varakornkarn, K., and Strobel, F. (2005). *Livelihood recovery & rehabilitation: Thailand*. Joint Tsunami Disaster Assessment Mission, UNDP/World Bank/FAO.
- Bowman, N. (2005). "Naomi's Story." <<http://www.tsunamistories.net/ViewStory.aspx?StoryID=41a8fc79-9dad-4493-8765-6346b603a72e>> (May 17, 2007).

- Breierova, Lucia. (1997). "Generic structure: overshoot and collapse." Working Paper No. D-4480, System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Brown, G. S., and Campbell, D. P. (1948). *Principles of servomechanisms*. John Wiley & Son, New York.
- Bryant, E. (2001). *Tsunami: The underrated hazard*. Cambridge University Press, Cambridge.
- Bundiarjo, A. (2006). "Evacuation shelter building planning for tsunami-prone area: a case study of Meulaboh City, Indonesia." Master Thesis, International Institute for Geo-information Science and Earth Observation, The Netherlands. <http://www.itc.nl/library/papers_2006/msc/upla/amin.pdf> (Sep. 30, 2006).
- Camfield, F. E. 1980. "Tsunami engineering." Special Report no. 6, Coastal Engineering Research Center, US Army Engineer Waterways Experiment Station.
- CBS News. (2005). Sea gypsies see signs in the waves. 20 March 2005.
- CERC (Coastal Engineering Research Center). (1984). *Shore Protection Manual*. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.
- Charnkol, T. and Tanaboriboon, Y. (2006). "Tsunami evacuation behavior analysis—One step of transportation disaster response." *IATSS Research*, 30(2), 83–96.
- Chen, Q. J., Kirby, T., Dalrymple, R. A., Shi, F., and Thornton, E. B. (2000). "Boussinesq modeling of longshore currents." *J. Geophys. Res.* 108(C11), 3362.
- Choi, B. H., Pelinovsky, E., Kim, K. O., and Lee, J. S. (2003). "Simulation of the trans-oceanic tsunami propagation due to the 1883 Krakatau volcanic eruption." *Natural Hazards and Earth System Sciences* 3, 321–332.
- Chung, C. V. (1994). "Generic structures in oscillatory system I." Working Paper No. D-4426-3, System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Chung, R. M. (1995). "Hokkaido-Nansei-Oki earthquake and tsunami of July 12, 1993: reconnaissance report." *Earthquake Spectra*, 11(Suppl A), 1–66.
- Coch, N. K. (1998). *Geohazards: Natural and human*. Prentice Hall, New Jersey.
- CU (Chulalongkorn University). (2005). *Survey, research, and study for rehabilitation of natural resources and environment*. Chulalongkorn University, Bangkok, Thailand. (in Thai)
- Cyranoski, D. (2005). "A system that works if people listen." *Nature*, 433(27 January 2005), 343.
- Dalrymple, R. A. (2007). "Solitary wave calculator" <<http://www.coastal.udel.edu/faculty/rad/solcalc.html>> (April 18, 2007).
- Dalrymple, R. A., Grilli, S. T., and Kirby, J. T. (2006). "Tsunami and challenges for accurate modeling." *Oceanography*, 19(1), 142–151.

- Dalrymple, R. A., and Kriebel, D. (2005). "Lessons in engineering from the tsunami in Thailand." *The Bridge*, 35(2), 4–13.
- DDPM (Department of Disaster Prevention and Mitigation). (2005). *Statistics of the disasters in 2004 and 2005*. Ministry of Interior, Bangkok, Thailand. (in Thai)
- Dean, R. G., and Darlymple, R. A. (1991). *Water wave mechanics for engineers and scientists*. World Scientific Publishing, Singapore.
- Dharmmasaroj, S. (2006). "Additional installation of tsunami warning system: 6 Andaman provinces almost completed." *Khaosod*, 16(5633), 24. (in Thai)
- Diamond, A. (2000). "Vensim conversion guide." Working Paper No. D-4526, System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Disaster Reduction Unit. (2005). *UNDP and the tsunami recovery in Thailand: Situation overview*. United Nation Development Program, Geneva.
- DMCR (Department of Marine and Coastal Resources). (2005). *Survey and assessment of the tsunami impacts on coastal resources in the Andaman Sea*. Department of Marine and Coastal Resources, Bangkok, Thailand. (in Thai)
- Dotson, L. J., and J. Jones. (2005). "Identification and analysis of factors affecting emergency evacuations." Technical Report No. NUREG/CR-6864, Vol. 1, Division of Preparedness and Response, Office of Nuclear Security and Incident Response, U.S. Nuclear Regulatory Commission, Washington, D.C.
- Duerrast, H., and Meekeaw, D. (2005). "The Indian Ocean tsunami 2004—transformation of a crisis." *Proc., Disaster Management*, Prince of Songkla University, Royal Phuket City Hotel, Phuket, Thailand, 15-1—15-8.
- Dunbar, P. K., Dengler, L., and Stroker, K. J. (2006). "NOAA's historical tsunami database." *Proc., 3rd Tsunami Symposium*, 23—26 May 2006, Honolulu, Hawaii.
- Eberlein, R. L., and Peterson, D. W. (1992). "Understaning models with VensimTM." *European Journal of Operational Research*, 59(1992), 216—219.
- Eisner, R., Ishibashi, K., Buika, J., Dengler, L., Fujioka, M., and Hayashi, H. (2003). "Findings and recommendations of the 7th US Japan Workshop on Urban Earthquake Hazards Reduction Working Group on tsunami mitigation." *Proc., 7th US Japan Workshop on Urban Earthquake Hazard Reduction*, 23—26 March 2003, Outrigger Marriott Wailea Resort, Maui, Hawii.
- EIU (The Economist Intelligence Unit). (2005). *Special report on Asia's tsunami: The impact*. Patersons Dartford, Dartford.
- Emery, S. (2005). "Your experiences of Asian disaster." <<http://news.bbc.co.uk/1/hi/talking-point/4126255.htm>> (May 15, 2007).
- Fine, I. V., Rabinovich, A. B., and Thomson, R. E. (2005). "The dual source region of the 2004 Sumatra tsunami." *Geophys. Res. Letters* 32, LI16602, 1—4.
- Fitzer, J. H. (1993). *Philosophy of Science*, Paragon House, New York.
- Ford, A. (1999). *Modeling the environment: An introduction to system dynamics models of environmental Systems*. Island Press, Washington, D.C.

- Ford, A. and Flynn, H. (2005). "Statistical screening of system dynamics models." *System Dynamics Review*, 21(4), 273–303.
- Forrester, J. W. (1961). *Industrial dynamics*. Pegasus Communications, Waltham, Massachusetts.
- Forrester, J. W. (1968). "Market growth as influenced by capital investment." *Industrial Management Review*, 9(2), 83–105.
- Forrester, J. W. (1969). *Urban dynamics*. Pegasus Communications, Waltham, Massachusetts.
- Forrester, J. W. (1971). *World dynamics*. Wright-Allen Press, Cambridge, Massachusetts.
- Forrester, J. W. (1973). "Confidence in models of social behavior—with emphasis on system dynamics model." Working Paper No. D-1967, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Forrester, J. W. (1985). "The model versus a modeling process." *System Dynamics Review*, 1(1), 133–134.
- Forrester, J. W. (1989). "The Beginning of System Dynamics." Working Paper No. D-4165-1, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Forrester, J. W. (1990). *Principles of systems*. Productivity Press, Portland, OR.
- Forrester, J. W. (1994). "System dynamics, systems thinking, and soft OR." Working Paper No. D-4405-1, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Forrester, J. W. (1996). "System dynamics and K-12 teachers." Working Paper No. D-4665-4, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Forrester, J. W. (2003). "Economic theory for the new millennium." Working Paper No. D-4886-2, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Forrester, J. W. (2007). "System dynamics—A personal view of the first fifty years." *System Dynamics Review*, 23(2–3): 345–358.
- Forrester, J. W., and Senge, P. M. (1979). "Tests for building confidence in system dynamics models." Working Paper No. D-2926-7, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Freund, P. (2005). "Khlong Nin Beach—Report & Tsunami Photo—Peter Freund." <<http://www.radarheinrich.de/wbblite/thread.php?threadid=1794>> (May 15, 2007).
- Geist, E. L., Titov, V. V., and Synolakis, C. E. (2006). "Tsunami: wave of change." *Scientific American*, 1 January 2006.

- Ghobarah, A., Saatcioglu, M., and Nistor, I. (2006). "The impact of the 26 December 2004 earthquake and tsunami on structures and infrastructure." *Engineering Structure*, 28(2006), 312–326.
- Giere, R. N. (1984). *Understanding Scientific Reasoning*, 2nd Ed., Holt, Rinehart and Winston, New York.
- Giere, R. N. (2004). "How models are used to represent reality." *Philosophy of Science*, 71(December 2004), 742–752.
- Gonzalez, F. I., Milburn, H.B., Bernard, E. N., and Newman, J. (2003). "Deep-ocean assessment and reporting of tsunami (DART)." <<http://www.ndbc.noaa.gov/dart/brief.shtml>> (Oct. 8, 2006).
- Goodman, M. R. (1974). *Study notes in system dynamics*. Pegasus Communication, Waltham, MA.
- Gower, J. (2005). "Jason 1 detects the 26 December 2004 tsunami." *Eos*, 86(4), 37–38.
- Graham, A. K. (1980). "Parameter estimation in system dynamics modeling." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 143–161.
- Gravin, A. (2005). "Tsunami photos." <<http://www.kohjumonline.com/grawin>> (May 20, 2007).
- Gray, J. (2005). "Tsunami Media Kit." <<http://www.johngray-seacanone.com/pdf/Tsunami-Media-Kit.pdf>> (May 15, 2007).
- Green, G. (1838). "On the motion of waves in a variable canal of small depth and width." *Trans. Cambridge Philos. Soc.*, 6, 457–462.
- Grilli, S. T. (1997), "Fully nonlinear potential flow models used for long wave runup prediction." *Long-wave Runup Models*. H. Yeh, P. Liu, and C. Synolakis, eds., World Scientific Publishing, Singapore, 116–180.
- Grilli, S. T., Ioualalen, M., Asavanant, J., Shi, F., Kirby, J. T., and Watts, P. (2007). "Source constraints and model simulation of the December 26, 2004 Indian Ocean Tsunami." *J. Waterw. Port Coast. Ocean Eng.*, in press.
- Grosskopf, H. (2007). Personal E-mail communication to M. Kietpawpan, June 18, 2007.
- Gupta, A. K., Kumar, R., Yadav, P. K., and Naveen, M. (2001). "Fire safety through mathematical modelling." *Current Science*, 80(1), 18–26.
- Gwynne, S., Galea, E. R., Owen, M., Lawrence, P. J., and Filippidis, L. (1999). "A review of the methodologies used in the computer simulation of evacuation from the built environment." *Building and Environment*, 34(1999), 741–749.
- Hammack, J. L. (1973). "A note on tsunamis: Their generation and propagation in an ocean of uniform depth." *J. Fluid Mech.*, 60, 769–799.

- Hamilton, M. S. (1980). "Estimating lengths and orders of delays in system dynamics models." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 162–183.
- Hamzah, M. (2005). "Learning lessons from the tsunami." *Southeast Asian Press Alliance*, <<http://www.seapabkk.org/newdesign/fellowshipsdetail.php?No=445>> (May 10, 2006).
- Halif, M. N. A. and Sabki, S. N. (2005). "The physics of tsunami: Basic understanding of the Indian Ocean disaster." *Am. J. Appl. Sci.*, 2(8), 1187–1192.
- Hayir, A. (2006). "The near-field tsunami amplitudes caused by submarine landslides and slumps spreading in two orthogonal directions." *Ocean Engineering*, 33(2006), 654–664.
- HD (Hydrographic Department). (2004). *Bathymetry Chart no. 308: Phuket to Kantang*. Royal Thai Navy, Bangkok, 10260.
- Hill, R. A., Chapman, P. M., Mann, G. S., and Lawrence, G. S. (2000). "Level of detail in ecological risk assessment." *Marine Pollution Bulletin*, 40, 417–477.
- Hollings, J. (2005). "Reporting the Asian tsunami: Ethical issues." *Pacific Journalism Review*, 11(2), 151–167.
- Holloway, G., Murty, T., and Fok, E. (1985). "Effects of bathymetry roughness upon tsunami travel time." *Sci. of Tsunami Hazards* 4(3), 165–172.
- Howell, D. W. (1993). *Passport: an introduction to tourism industry*. South-Western Publishing, Cincinnati, Ohio.
- Inoue, K., Kawachi, K., Yamagami, M., and Toda, K. (1996). "Analysis on resident evacuations based on the town-network model, *Proceedings of Coastal Engineering, JSCE*, 46, 351–355. (in Japanese).
- Johannesson, K. a. and Mitson, R. B. (1983). "Fisheries acoustics: A practical manual for aquatic biomass estimation." *FAO Fisheries Technical Report 240*, Food and Agriculture Organization of the United Nations, Rome. <<http://www.fao.org/docrep/p/X5818E/x5818e0a.htm>> (Dec. 17, 2006).
- Johnstone, A. (2005). "How the new tsunami warning system works." *Phuket Gazette*, December 24–30, 2005, 3. <<http://www.phuketgazette.net/tsunami/#t2>> (20 May 2007).
- Jongkaewwattana, S. (1995). *System simulation and modeling*. Multiple Cropping Center, Faculty of Agriculture, Chiang Mai University, Chiang Mai, Thailand.
- Jr-Hung, C., Po-Fei, C., Nai-Chi, H., and Chien-Hsin,C. (2005). "Tsunami arrival time database and warning system of Taiwan." *Proc., International Workshop on Emergency Response and Rescue*, 31 October — 1 November 2004.
- Kamin, T., Martin, L. A, Stange, K. M., Samaranayake, S., and Choge, N. K. (2002). "Generic structures: Damped oscillations." Working Paper No. D-4690, MIT

- System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Katada, T., Kuwasawa, N., and Yeh, H. (2004). "Tsunami Scenario Simulator." *Proc., 3rd Tsunami Scenario Simulation Workshop*, 28-29 October 2004, San Francisco, CA.
- Kawata, Y. and Koike, N. (1996). "Study on hazard map based on tsunami overflowing specialty." *Proceedings of Coastal Engineering, JSCE*, 43, 1301—1305. (in Japanese).
- Kawata, Y., Tsuji, Y., Sugimoto, Y., Matsumoto, H., Okamura, Y., Hayashi, I., Kayane, H., Tanioka, Y., Fujima, K., Maki, N., and Koshimura, S. (2005). "Comprehensive analysis of the damage and its impact on coastal zones by the 2004 Indian Ocean tsunami disaster." <<http://www.tsunami.civil.tohoku.ac.jp/sumatra2004/report.html>> (May 15, 2007).
- Kelly, D. (1998) *The Art of Reasoning*, W.W. Norton & Company, New York.
- Kietpawpan, M., Visuthismajarn, P., and Tanavud, C. (2006). "Simulation of Tsunami Propagation to Patong Beach, Thailand." Progress report submitted to the World Vision Foundation of Thailand, Pattalung, Thailand.
- Kietpawpan, M., Visuthismajarn, P., Tanavud, C., and Robson, M. G. (2008). "Method of calculating tsunami travel times in the Andaman Sea region." *Natural Hazards*, in press.
- Kirkwood, C. W. (1998). *System dynamics methods: A quick introduction*. Department of Management, Arizona State University, Tempe, AZ.
- Kirshaw, P. J., and Mason, B. (2005). *The Indian Ocean tsunami disaster: Implication for U.S. and global disaster reduction and preparedness*. National Academy Press, Washington, D.C.
- Kleindorfer, G. B., O'Neil, L., and Ganeshan, R. (1998). "Validation in simulation: Various positions in the philosophy of science." *Management Science*, 44(8), 1087—1099.
- Koanantakool, T. (2005). "Characteristics of the 26 December 2004 tsunami." *National Electronics and Computer Technology (NECTEC), Thailand*. <<http://www.nectec.or.th/users/htk/29941226quake/20041231.html>> (Sep. 29, 2006).
- Kowalik, Z., Knight, W., Logan, T., and Whitemore, P. (2005). "Numerical modeling of the global tsunami: Indonesian tsunami of 26 December 2004." *Science of Tsunami Hazards*, 23(1), 40—56.
- Khovadhana, K. (2005). "Thailand Action Plan for Tsunami Early Warning System." Rep. No. ICG/IOTWS-I/4, Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), Australia.
- Kunda, P. K. (1990). *Fluid mechanics*. Academic Press, New York.

- Kumar, B. P., Kumar R. R., Dube, S. K., Murty, T. Gangopadhyay, A., Chaudhuri, A., and Rao, A. D. (2006). “Tsunami travel time computation and skill assessment for the 26 December 2004 event in the Indian Ocean.” *Coast. Eng. J.*, 48(2), 1–20.
- Lane, D. C. (2007). “The power of the bond between cause and effect: Jay Wright Forrester and the field of system dynamics” *System Dynamics Review*, 23(2–3): 95–118.
- Larsen, J. (2007). “Simple Long Ocean Wave Model”. <<http://slowmo.sourceforge.net/science.php>> (May 26, 2007).
- Lautrup, B. (2005). “Tsunami physics.” <<http://www.nbi.dk/~lautrup/continuum/tidbits/tsunami.english.pdf>> (Feb. 14, 2007).
- Le Mehaute, B. and Wang, S. (1996). *Water Waves Generated by Underwater Explosion*. World Scientific Publishing, Singapore.
- Little, R. G., Wallance, W. A., Birkland, T. A., and Herabat, P. (2007). “Socio-technological system integration to support tsunami warning and evacuation.” Proc., the 40th Hawaii International Conference on System Sciences, Hilton Waikoloa Village Resort, Waikoloa, Big Island, Hawaii, 3–6 January 2007, 1–10.
- Liu, P. L. (2005). “Tsunami simulations and numerical models.” *The Bridge*, 35(2), 14–20.
- Luna-Reyes, L. F., and Andersen, D. L. (2003). “Collecting and analyzing qualitative data for system dynamics: Methods and models.” *System Dynamics Review*, 19(4), 271–296.
- Macgill, S. M., and Siu, Y. L. (2005). “A new paradigm for risk analysis.” *Future*, 37(2005), 1105–1131.
- MacLean, S. (2005). “Tsunami blitzes crisis coverage.” *The Australian*, Media section, 17 March 2005, 20.
- MacMillan, R.H. (1951). *An introduction to the theory of control in mechanical engineering*. The University Press, Cambridge.
- Mader, C. L., and Gittings, M. L. (2006). “Numerical model for the Krakatoa hydrovolcanic explosion and tsunami.” *Science of Tsunami Hazards*, 24(3), 174–182.
- Maggie, M. (2005). “Power of tsunami earthquake heavily underestimated.” *New Scientist*, (9 February 2005).
- Marks, K. M., and Smith, W. H. F. (2006). “An evaluation of publicly available global bathymetry grids.” *Marine Geophysical Researches*, 27, 19–34.
- Marris, E. (2005). “Inadequate warning system left Asia at the mercy of tsunami.” *Nature*, 433, 3–5.
- Martin, L. A. (1996). “Exploring S-shape growth.” Working Paper No. D-4476-2, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.

- Mass, N. J., and Senge, P. M. (1980). "Alternative tests for selecting model variables." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 205–225.
- Meadows, D. H. (1980). "The unavoidable a priori." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 23–57.
- Meadows, D. H., Meadows, D. L., Randers, J., and Behren, W. (1972). *The limits to growth*. Universe Press, New York.
- Meadows, D. L. (1973). "Introduction to the project." *Towards global equilibrium: Collected papers*, D. L. Meadows and D. H. Meadows, eds., Pegasus Communications, Waltham, MA, 31–45.
- Meinig, C., Stalin, S. E., Nakamura, A. I., and Milburn, H. B. (2005). *Real-Time Deep-Ocean Tsunami Measuring, Monitoring, and Reporting System: The NOAA DART II Description and Disclosure*. Pacific Marine Environmental Laboratory (PMEL), U.S.A.
- Mileti, D. S. and Peek, L. (2000). "The social psychology of public response to warnings of a nuclear power plant accident." *Journal of Hazardous Materials*, 75(2000), 181–194.
- Mill, R. C. (1990). *Tourism The International Business*. Prentice Hall, Engle Cliffs, New Jersey.
- Miller, D. J. (1960). "Giant waves in Lituya Bay, Alaska." *U.S. Geological Professional Paper No. 354-C*. US Government Printing, Washington, D.C.
- MOF (Ministry of Finance). (2005). *Outline Development Plan for the Andaman Sub-region*. Ministry of Finance, Bangkok, Thailand.
- Mogoto, F. (2004). "Simulation of human evacuation from tsunami by using mesh data." Thesis, Tohoku University. (in Japanese)
- MONRE (Ministry of Natural Resources and Environment). (2005). *1 Year Tsunami: Restoration of Thailand's Natural Resources and Environment*. Integrated Promotion Technology, Bangkok.
- Moritz, H. (2000). "Geodetic Reference System 1980." *J. of Geodesy*, 74(1), 128–133.
- Muraleedharan, G., Shina, M., Rao, A. D., and Murty, T. S. (2006a). "Statistical simulation of Boxing Day tsunami of the Indian Ocean and a predictive equation for beach run-up heights based on Work-Engergy theorem." *Mar. Geodesy*, 29(3), 223–231.
- Muraleedharan, G., Rao, A. D., Murty, T. S., and Sinha, M. (2006b). "Validation of tsunami beach run-up height predictive model based on Work-Energy theorem." *The Indian Ocean Tsunami*, U. Aswathanarayana and N. Nirupama, eds, Taylor and Francis, Netherlands, 131–142.
- Murty, T. S. (2007). Personal E-mail communication to M. Kietpawpan, Sept. 10, 2007.

- Murthy, T. S., and Rafiq, M. (1991). "A tentative list of tsunamis in the marginal seas of the northern Indian Ocean." *Natural Hazards*, 4, 81–83.
- National Tsunami Hazard Mitigation Program. (2001). "Designing for tsunamis: seven principles for planning and designing for tsunami hazards." <http://www.prh.noaa.gov/itic/library/pubs/online_docs/Designing_for_Tsunamis.pdf> (Apr. 20, 2006).
- Narayan, J. P., Sharma, M. L., and Maheswari, B. K. (2005). "Run-up and inundation pattern developed during the Indian Ocean tsunami of December 26, 2004 along the coast of Tamilnadu (India)." *Gondwana Research*, 8(4), 611–616.
- NGDC (National Geophysical Data Center). (2006). "ETOPO5 5-minute Girdded Elevation Data." <<http://www.ngdc.noaa.gov/mgg/global/etopo5.html>> (May 22, 2006).
- NGDC. (2007). "2-Minute Girdded Global Relief Data (ETOPO2v2) June, 2006." <<http://www.ngdc.noaa.gov/mgg/fiers/06mgg01.html>> (March 27, 2007).
- NESDB (National Economic and Social Development Board). (2005). "Tsunami—affected area recovering plan, Phuket province." <http://www.phuket.go.th/www_phuketGoth/data_stunami/overall_2.doc> (Sep. 30, 2005).
- NNB (National News Bureau). (2007a). "Special—Tsunami Evacuation Drill in Patong, Phuket, held on Wednesday 25 July." <http://www.thainews.com/news_detail.php?newsid=214361> (August 1, 2007).
- NNB. (2007b). "Kalim School near Patong Practiced a Tsunami Evacuation." <http://www.thainews.com/news_detail.php?newsid=214226> (August 12, 2007).
- Nozawa, S., Katanabe, K., and Kondo, A. (2005). "Tsunami evacuation simulation model by multi-agent system in historical built-up area." *Summaries of Technical Papers of Infrastructure Planning*, 32(December 2005), 217.
- Oh, A. (1995). "Graphical integration exercises part one: Exogenous rates." *Rep. No. D-4547-1*, MIT System Dynamics Group, Sloan School of Management, Massachusetts Institute of Technology, Cambridge, MA.
- Okal, E. A. (1993). "Predicting large tsunamis." *Nature*, 361(6414), 686–687.
- Ortiz, M., Gomez—Reyes, E., and Velez—Munoz, H.S. (2000). "A fast preliminary estimation model for transoceanic tsunami propagation." *Geofisica International*, 39(3), 207–220.
- Papadopoulos, G. A., Caputo, R., McAdoo, B., Pavlides, S., Karastathis, V., Fokaefs, A., Orfanogiannak, K., and Valkaniotis, S. (2006). "The large tsunami of 26 December 2004: Field observations and eyewitnesses accounts from Sri Lanka, Maldives Is. and Thailand." *Earth Planets Space*, 58, 233–241.
- Pearce, F., and Holmes, B. (2005). "Tsunami: The impact will last for decades." *New Scientist*, 2482 (15 January 2005), 14.

- Pelinovsky, E., Riabov C.K., and Francius, M. (2001). "Study of tsunami propagation in the Ligurian Sea." *Natural Hazards and Earth System Sciences* 1, 195–201.
- Phuket Gazette. (2005). "PM to attend evacuation drill in Patong." *Daily News, Aril 28, 2005.* <<http://www.phuketgazette.net/news/index.asp?id=4249>> (Sep. 26, 2006).
- Phuket Gazette. (2007). "Tsunami evacuation drill 'hit and miss'." <<http://www.phuketgazette.net/news/index.asp?fromsearch=yes&Id=5857>> (August 1, 2007).
- Pidd, M., de Silva, F. N., and Egelsee, R. W. (1996). "A simulation model for emergency evacuation." *European Journal of Operational Research*, 90 (1996), 413–419.
- PMO (Patong Municipality Office). (2005a). *Plan for Tsunami Evauation in the Vicinity of Patong Beach, Patong Municipality, Kratoo, Phuket.* Patong Municipality Office, Phuket, Thailand.
- PMO. (2005b). *Tsunami Evacuation Drill at Patong Beach, Patong Municipality, Amphoe Krathu, Changwat Phuket, on April 29, 2005 between 10 and 12 AM.* Patong Municipality Office, Krathu, Phuket, Thailand. (in Thai).
- PMO. (2007a). *Enjoyable and Safe Stay in Patong.* Patong Municipality Office, Phuket, Thailand.
- PMO. (2007b). *Evacuation Drilling for Tsunami Incident Patong Beach, Phuket, July 25, 2007.* Patong Municipality Office, Phuket, Thailand.
- Pongprayoon, T. (2006). "Development of Phuket beaches for sustainable tourism: A case study of Patong, Kata, Karon." Master Thesis, Prince of Songkla University, Phuket, Thailand.
- Popper, K. (2002). *The logic of scientific discovery.* Routledge, New York.
- Porter, A. (1950). *An introduction to servomechanisms.* John Wiley & Son, New York.
- Promyamayai, T. (2007). *Thousands take part in tsunami drill on Thai coast.* Agence France Press, Hong Kong.
- PTWC (Pacific Tsunami Warning Center). (2005). "Tsunami great wave: Tsunami research activities." <http://www.prh.noaa.gov/itic_pr/The_Great_Waves/tsunami_great_waves_9.html> (May 29, 2006).
- Quarantelli, E. L. (1980). "Evacuation behavior and problems: Findings and implications from the research literature." *Rep. No. 27*, Disaster Research Center, Ohio State University, Columbus, Ohio.
- Randers, J. (1973). "DDT movement in the global environment." *Toward Global Equilibrium: Collected Papers*, D. L. Meadows and D. H. Meadows, eds., Pegasus Communications, Waltham, MA, 49–83.
- Randers, J. (ed.). (1980a). *Elements of the system dynamics method.* Pegasus Communications, Waltham, MA.

- Randers, J. (1980b). "Guidelines for model conceptualization." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 117–139.
- Repenning, N. P. (2003). "Selling system dynamics to (other) social scientists." *System Dynamics Review*, 19(4), 303–327.
- Richardson, G. P. (1986). "Problems with causal-loop diagram." *System Dynamics Review*, 2(2), 158–170.
- Richardson, G., and Pugh, A. (1981). *Introduction to system dynamics modeling with DYNAMO*. Pegasus Communications, Waltham, MA.
- Roberts, N., Anderson, D. F., Deal, R. M., Great, M. S., and Shaffer, W. A. (1983). *Introduction to computer simulation: The system dynamics approach*. Addison-Wesley Publishing Company, Reading, MA.
- Rabinovich, A. B. and Thomson, R. E. (2007). "The 26 December 2004 Sumatra tsunami: Analysis of tide gauge data from the world ocean Part 1 Indian Ocean and South Africa." *Pure Appl. Geophys.*, 164(2007), 261–308.
- Robinson, J. M. (1980). "Managerial sketches of the steps of modeling." *Elements of the System Dynamics Methods*, J. Randers, ed., Pegasus Communications, Waltham, MA, 249–270.
- Raderstorf, S. (2004). "Raderstorf world wide adventure: alive and well in Bangkok." <<http://raderstorffwa.blogspot.com/2004/alive-and-well-in-bangkok.html>> (May 15, 2007).
- Ruanggrassamee, A. (2005). *Tsunami Forecasting and Self-Preparedness*. The Earthquake Engineering and Vibration Research Laboratory, Chulalongkorn University, Bangkok.
- Saeed, K. (1999). *Defining a problem or constructing a reference mode*. Social Science and Policy Studies Department, Worcester Polytechnic Institute.
- Samabuddhi, K., and Ngamkham, W. (2005). "Alert network needs tuning." *Bangkok Post*, 17(December 2005).
- Samabuddhi, K., Wancharoen, S., and Mekloy, P. (2005). "Foreign aid crucial: Govt' must work with international experts." *Tsunami One Year On: The Challenges Ahead*, K. Sanandang, ed., Post Publishing Public Co., Ltd., Bangkok.
- SAN (Save Andaman Network). (2005). *Andamanian Is a Sea-keeper*. Save Andaman Network, Muang, Trang, Thailand. (in Thai).
- Sastry, M. A., and Sterman, J. D. (1992). "Desert island dynamics: An annotated survey of the essential system dynamics literature." <<http://web.mit.edu/jsterman/www/DID.html>> (Sep. 13, 2005).
- Satake, K. (1988). "Effects of bathymetry on tsunami propagation: Application of ray tracing to tsunamis." *PAGEOPH*, 126(1), 27–36.

- Sato, S. (1996). "Numerical simulation of 1993 Southwest Hokkaido earthquake tsunami around Okushiri Island." *J. Waterw. Port Coast. Ocean Eng.*, 122(5), 209–215.
- Sato, H., Murakami, H., Kozuki, Y., and Yamamoto, N. (2003). "Study on a simplified method of tsunami risk assessment." *Natural Hazards*, 29, 325–340.
- Seiji, N., Katanabe, K., and Kando, A. (2005). "Tsunami evacuation simulation model by multi-agent system in historical built-up area." *Summary of Technical Papers of Infrastructure Planning*, 30(December 2005), 217. (in Japanese)
- Senge, P. M. (1994). *The fifth discipline: The art & practice of the learning organization*. Currency DoubleDay, New York.
- Senge, P. M., Kleiner, A., Roberts, C., Ross, R., and Smith, B. (1994). *The fifth discipline fieldbook: strategies and tools for building a learning organization*. Currency DoubleDay, New York.
- Shen, T. (2005). "ESM: A building evacuation simulation model." *Building and Environment*, 40(5), 671–680.
- Shigehiko, S. (2005). "Simulation of tsunami evacuation with improved potential model in Sendai Port." Thesis, Tohoku University. (in Japanese)
- Shimada, T., Murakami, H., Kozuki, Y., Sugimoto, T., and Nishikawa, K. (1999). "Estimation of loss of lives due to tsunami disasters." *Proceedings of Coastal Engineering, JSCE*, 46, 361–365. (in Japanese).
- SHIRE1 (pseud.). (2006). "Tsunami". *Asia Web Direct Forums*. <<http://www.asiaweb-direct.com/forums/>> (Sep. 26, 2006).
- Shokin, Y. I., Chubarov, L.V., Novikov, V. A., and Sudakov, A. N. (1987). "Calculation of tsunami travel times charts in the Pacific Ocean (models, algorithms, techniques, results)." *Sci. of Tsunami Hazards*, 5(2), 85–113.
- Siffer, T. (2005). "Registratie van de golven bij Phuket (Nai Harn-baai) door het jacht Mercator." <http://www.wdm.be/mailng_list/nieuwsbrief/Tsunami.html> (May 25, 2007).
- Simonovic, S. P., and Ahmad, S. (2005). "Computer-based model for flood evacuation emergency planning." *Natural Hazards*, 34(2005), 25–51.
- Smith, K. (1998). *Environmental hazards: Assessing risk and reducing disaster*, 2nd Ed. Routledge, London.
- Sorensen, J. H., Vogt, B. M., and Milet, D. S. (1987). "Evacuation: An assessment of planning and research" *Rep. No. ORNL-6376*, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Southworth, F. (1991). "Regional Evacuation Modeling: A State-of-the-Art Review." *Rep. No. ORNL/TM-11740*, Oak Ridge National Laboratory, Oak ridge, Tennessee.
- Stein, S., and Okal, E. A. (2005). "Speed and size of the Sumatra earthquake: We now have a clearer picture of the seismic features of last year's gigantic event." *Nature*, 434(31 March 2005), 581–582.

- Stein, S. and Wyession, M. (2003). *An Introduction to seismology, earthquakes, and earth structure*. Blackwell Publishing, Oxford.
- Sterman, J. D. (2000). *Business Dynamics: System Thinking and Modeling for a Complex World*. McGraw-Hill, Singapore.
- Sugimoto, T., Murakami, H., Kozuki, Y., and Nishikawa, K. (2003). "A human damage prediction method for tsunami disasters incorporating evacuation activities." *Natural Hazards*, 29, 585–600.
- Suraswadi, P. (2005). "National Warning Center handbook (Abbreviated Version)." *Proc., Disaster Management*, Prince of Songkla University, 26-28 December 2005, Royal Phuket City Hotel, Phuket, Thailand, 3-13-16.
- Synolakis, C. E. (1990). "Green's law and the evolution of solitary waves." *Phys. Fluids A*, 3(3), 490–491.
- Synolakis, C. E. (1995). "Tsunami prediction." *Science*, 270, 15–16.
- Taaffe, K. M., Kohl, R., and Kimbler, D. L. (2005). "Hospital evacuation: Issues and complexities." *Proc., the 2005 Winter Simulation Conference*, M. E. Kuhl, N. M. Steiger, F. B. Armstrong and J. A. Joines, eds., 943–950.
- Tadepalli, S. and Synolakis, C. E. (1996). "Model for the leading waves of tsunamis." *Physical Review Letters*, 77(10), 2141–2144.
- Tanavud, C. (2005). "Report on the impact of the December 2004 tsunami on the Andaman coast of southern Thailand." *Proc., International Conference on Environmental Hazards and Geomorphology in Monsoon Asia: Progress in Process Study and GIS Mapping*, Prince of Songkla University, 20-24 December 2005, at J.B. Hotel, Hat Yai, Songkhla, Thailand.
- Tank-Nielsen, C. (1980). "Sensitivity analysis in system dynamics." *Elements of the System Dynamics Method*, J. Randers, ed., Pegasus Communications, Waltham, MA, 187–204.
- Tantiwanit, W. (2005). "Overview of consequences of the tsunami in Thailand." <[http://www.ccop.or.th/download/tech/1-Overview of Consequences of the Tsunami in Thailand-WT.pdf](http://www.ccop.or.th/download/tech/1-Overview%20of%20Consequences%20of%20the%20Tsunami%20in%20Thailand-WT.pdf)> (Oct. 2, 2006).
- Tetsushi, H. (2003). "Study on evaluation of tsunami disaster counter measure in relation to evacuation action." M.S. Thesis. Tohoku University. (in Japanese)
- Thanawood, C., Yongchalerdmchai, C., and Densrisereekul, O. (2006). "Effects of the December 2004 tsunami and disaster management in southern Thailand." *Science of Tsunami Hazards*, 24(3), 206–217.
- The Economist. (2003). "The Next Big Wave." *The Economist*, 14 August 2003, Science & Technology section.
- Thomson, J. M. (2005). "Thailand Tsunami—My Experience in Khao Lak—26 December 2004." <<http://www.sonomacountrylaw.com/tsunami/timeline.htm>> (May 25, 2007).

- Tinti, S. and Gavagni, I. (1995). "A smooth algorithm to enhance finite-element tsunami modeling: an application to the 5 February 1783 Calabrian Case, Italy." *Natural Hazards* 12, 161–197.
- Titov, V. V. and Gonzalez, F. I. (1997). "Implementation and testing of the method of splitting tsunami (MOST) model." *NOAA Technical Memorandum ERL PMEL-112*, Pacific Marine Environmental Laboratory, Seattle, WA.
- Titov, V. V., Gonzalez, F. I., Mofjeld, H. O., and Newman, J. C. (2001). "Project SIFT (Short-term Inundation Forecasting for Tsunamis)." *Proc., ITS 2001, Session 7, Number 7-2*, International Tsunami Society, 715–721.
- Titov, V. V., Gonzalez, F. I., Bernard, E. N., Eble, M. C., Mofjeld, H. O., Newman, J. C., and Venturato, A. J. (2005). "Real-time tsunami forecasting: Challenges and solutions" *Natural Hazards*, 35, 41–58.
- TMD (Thai Meteorology Department). (2006). "Project of Installing Three Tsunami Measurement Stations under National Disaster Warning Center Project (No. 2)." <http://www.gprocurement.go.th/06_tor/uploads/4491/1/Tsunami.pdf> (May 1, 2007).
- Tourism Authority of Thailand. (2005). "Evacuation Sites." *Thailand's National Disaster Warning Center & tsunami early warning system now in operation*. <<http://www.tatnews.org/ccc/images/evacuation/bmap.gif>> (Sep. 29, 2006).
- Tourism Authority of Thailand. (2006). "Installation of an early warning system & tsunami evacuation drills in Patong Beach, Phuket completed." *Press news*. <http://www.tourismthailand.se/pressnews/press_installationWarning.htm> (Apr. 11, 2006).
- Tsuji, Y., Namegaya, Y., Matsumoto, H., Iwasaki, S., Kanbua, W., Sriwichai, M., and Meesuk, V. (2006). "The 2004 Indian tsunami in Thailand: Surveyed runup heights and tide gauge records." *Earth Planets Space*, 58(2), 223–232.
- Umpelby, S., and Dent, E. B. (1999). "The origins and purposes of several traditions in systems theory and cybernetics." *Cybernetics and Systems*, 30, 79–103.
- UNCT (The United Nations Country Team). (2005a). "Joint needs assessment mission: Phuket & Phang Nga." *United Nations Country Team Trip Report, 10-13 January 2005*. UNDP/UNHabitat/IOM/UNHCR/UNESCO/UNEP.
- UNCT. (2005b). "Tsunami Thailand: One Year Later, National Response and Contribution of International Partners." *Report submitted to UNDP and the World Bank*. Bangkok.
- UNEP (United Nations Environment Program). (2006). "After the tsunami: Rapid environmental assessment. *Situation Reports*, The Asian Tsunami Disaster Task Force, United Nations Environment Program.
- UNESCO (United Nations Educational, Scientific and Cultural Organization). (1999). "Tsunami warning system in the Pacific Master Plan, 2nd Edition." *Working Paper, no. IOC/INF-1124 (April 1999)*, Intergovernmental Oceanographic Commission (IOC), UNESCO.

- USGS (United States Geological Survey). (2006a). "Magnitude 9.0—Off the west coast of northern Sumatra, 2004 December 26 00:58:53 UTC." *Preliminary Earthquake Report, 28 February 2006*, U.S. Geological Survey, National Earthquake Information Center, World Data Center for Seismology, Denver.
- USGS. (2006b). "Visual Glossary: Magnitude. Earthquake Hazards Program." *U.S. Geological Survey*. <<http://earthquake.usgs.gov/learning/glossary.php?termID=118>> (Apr. 21, 2006).
- Varian, H. R. (1997). "How to build an economic model in your spare time". *Passion and Craft: Economists at Work*, Michael Szenberg, University of Michigan Press, Michigan.
- Ventana Systems. (2007). *Vensim User's Guide, Vensim Version 5*. Ventana Systems, Inc., Harvard, MA.
- Vigny, C., Simons, W. J. F., Abu, S., Bamphenyu, R., Satirapod, C., Choosakul, N., Subarya, C., Socquet, A., Omar, K., Abidin, H. Z., and Ambrosius, B. A. C. (2005). "Insight into the 2004 Sumatra-Andaman earthquake from GPS measurements in southeast Asia." *Nature*, 436, 201–206.
- Virkler, M. R. (1998). "Prediction and measurement of travel time along pedestrian routes." *Transportation Research Record*, 1636, 37–39.
- Vogt, B. M. and Sorenson, J. H. (1992). *Evacuation research: a reassessment*. Oak Ridge National Laboratories, U. S. Department of Energy, Oak Ridge, Tennessee.
- Voute, C. (2005). "The Indian Ocean tsunami disaster." *COSPAR Information Bulletin*, 2005(163), 36–41.
- Wanderluster (pseud.). (2006). "Tsunami warning system?". *Asia Web Direct Forums*. <<http://www.asiaweb-direct.com/forums>> (Sep. 26, 2006).
- Warnitchai, P. (2005). "Lessons learned from the 26 December 2004 tsunami disaster in Thailand." *Proc., 4th Engineering Conference*, Faculty of Engineering, Prince of Songkla University, Songkhla, Thailand.
- Wei, G. and Kirby, J. T. (1995). "A time-dependent numerical code for extended Boussinesq equations." *J. Wtrwy, Port, Coast, and Ocean Engrg.* 121, 251–262.
- Wei, G. T., Kirby, J. T., Grilli, S. T., and Subramanya, R. (1995). "A fully nonlinear Boussinesq model for free surface waves. Part 1: Highly nonlinear unsteady waves." *J. Fluid Mech.* 294, 71–92.
- Weiner, N. (1948). *Cybernetics or control and communication in the animal and machine*. Wiley, New York.
- Wessel, P. (2007). "Geoware" <<http://www.geoware-online.com>> (March 2, 2007).
- WG2 (ICG/IOTWS Working Group 2). (2005). "Sea level data collection and exchange, including deep ocean tsunami detection instruments." *Final Report of Sessional Meeting ICG-II (December 2005)*, Intergovernmental Coordination

- Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWS), Australia.
- Whetten, D.A. (1989). "What contributes a theoretical contribution?" *Academy of Management Review*, 14(4), 490–495.
- Wikimedia Foundation. (2005). "2004 Indian Ocean Earthquake." *Wikipedia*. <http://en.wikipedia.org/wiki/2004_Indian_Ocean_earthquake> (Apr. 19, 2006).
- Wikimedia Foundation. (2006). "Patong Beach." *Wikipedia*. <http://en.wikipedia.org/wiki/Patong_Beach> (Sep. 10, 2006).
- Wong, L. T. and Cheung, T. F. (2006). "Evaluating probable risk of evacuees in institutional buildings." *Safety Science* 44(2006), 169–181.
- Xie, J. (2007). Personal E-mail communication to M. Kietpawpan. April 2, 2007.
- Xinhua. (2005). "Tsunami evacuation drill held in Thailand." *People's Daily Online*, World section, 17 December 2005.
- Yeh, H., Liu, P., Briggs, M., and Synolakis, C. (1994). "Propagation and amplification of tsunamis at coastal boundaries." *Nature*, 372(6504), 353–355.
- Yeh, H. (2004). "Integrated tsunami scenario simulation." *Proc., the NSF Caribbean Tsunami Workshop*, San Juan Beach Hotel, San Juan, Puerto Rico.