

2018 NTHMP TSUNAMI & SEDIMENT TRANSPORT MODELING BIBLIOGRAPHY

OVERVIEW: The Washington Department of Natural Resources was tasked with compiling a catalog of research and projects related to tsunamis and sediment transport modeling.

PROJECT: This catalog was a 2018 NTHMP Mapping and Modeling Subcommittee supported project in the 2018 annual workplan.

PURPOSE: The Mapping and Modeling Subcommittee plans to use this research as a guide for benchmark tests, and future benchmarking workshops.

PROCESS: Searched the internet and various databases (e.g. GeoRef, Google Scholar) for journal articles and projects related to tsunamis, sediment transport modeling, Delft3d, etc.

Abe, Tomoya; Goto, Kazuhisa; Sugawara, Daisuke, 2012, Relationship between the maximum extent of tsunami sand and the inundation limit of the 2011 Tohoku-oki tsunami on the Sendai Plain, Japan: *Sedimentary Geology*, v. 282, p. 142-150, <https://doi.org/10.1016/j.sedgeo.2012.05.004>.

Al'ala, Musa; Syamsidik; Hafli, T. M.; Fahmi, Mirza, 2016, Morphological changes and Tsunami deposits Studies around Northern Part of Sumatra Island, Indonesia: The 26th International Ocean and Polar Engineering Conference, 26 June-2 July, Rhodes, Greece.

Al'ala, Musa; Syamsidik; Rasyif, T. M.; Fahmi, Mirza, 2015, Numerical simulation of Ujung Seudeun land separation caused by the 2004 Indian Ocean tsunami, Aceh-Indonesia: Science of Tsunami Hazards, v. 34, no. 3, p. 159-172.

Apotsos, A.; Buckley, M.; Gelfenbaum, G.; Jaffe, B.; Vatvani, D., 2011, Nearshore tsunami inundation model validation: toward sediment transport applications: *Pure and applied geophysics*, v. 168, no. 11, p. 2097-2119, doi:10.1007/s00024-011-0291-5.

Apotsos, Alex; Gelfenbaum, Guy; Jaffe, Bruce, 2011, Process-based modeling of tsunami inundation and sediment transport: *Journal of Geophysical Research*, v. 116, no. F1, <https://doi.org/10.1029/2010JF001797>.

Apotsos, Alex; Gelfenbaum, Guy; Jaffe, Bruce, 2012, Time-dependent onshore tsunami response: *Coastal Engineering*, v. 64, p. 73-86, <https://doi.org/10.1016/j.coastaleng.2012.01.001>.

Apotsos, Alex; Gelfenbaum, Guy; Jaffe, Bruce; Watt, Steve; Peck, Brian; Buckley, Mark; Stevens, Andrew, 2011, Tsunami inundation and sediment transport in a sediment-limited embayment on American Samoa: *Earth-Science Reviews*, v. 107, no. 1-2, p. 1-11, <https://doi.org/10.1016/j.earscirev.2010.11.001>.

Apotsos, Alex; Jaffe, Bruce; Gelfenbaum, Guy; Elias, Edwin, 2009, Modeling time-varying tsunami sediment deposition: *Proceedings of Coastal Dynamics 2009*, p. 1-15, https://doi.org/10.1142/9789814282475_0037.

Arcas, Diego; Titov, Vasily, 2006, Sumatra tsunami: lessons from modeling: Surveys in Geophysics, v. 27, p. 679-705, doi:10.1007/s10712-006-9012-5.

Chagué, C.; Sugawara, D.; Goto, K.; Goff, J.; Dudley, W.; Gadd, P., 2018, Geological evidence for the 1946 and 1960 tsunamis in Shinmachi, Hilo, Hawaii?: Sedimentary Geology, v. 364, p. 319-333, <https://doi.org/10.1016/j.sedgeo.2017.09.010>.

Dababneh, Ahmed; Ferguson, Benjamin; Barton, D. J., 2012, Probable Maximum Tsunami Along the Dutch Coastline: ISOPE Conference June 17-22, 2012, 10 p.

Fachrurrazi; Syamsidik; Al'ala, M.; Mahardi, W., 2017, Numerical simulations of tsunami waves impacts on Ulee Lheue Harbour in Banda Aceh-Indonesia: IOP Conference Series, Earth and Environmental Science, v. 56, no. 1, 12 p., doi:10.1088/1755-1315/56/1/012015.

Furusato, Eiichi; Tanaka, Norio, 2014, Maximum sand sedimentation distance after backwash current of tsunami — Simple inverse model and laboratory experiments: Marine Geology, v. 353, p. 128-139, <https://doi.org/10.1016/j.margeo.2014.04.006>.

Galappatti G; Vreugdenhil, C. B., 1985, A depth-integrated model for suspended sediment transport: Journal of Hydraulic Research, v. 23, no. 4, p. 359–377, doi: 10.1080/00221688509499345.

Gelfenbaum, Guy; Apotsos, Alex; Stevens, A. W.; Jaffe, B. E., 2011, Effects of fringing reefs on tsunami inundation: American Samoa: Earth-Science Reviews, v. 107, no. 1-2, p. 12-22, DOI:10.1016/j.earscirev.2010.12.005.

Gelfenbaum, Guy; Vatvani, Deepak; Jaffe, Bruce; Dekker, Frank, 2007, Tsunami Inundation and Sediment Transport in Vicinity of Coastal Mangrove Forest: Sixth International Symposium on Coastal Engineering and Science of Coastal Sediment Process, <https://doi.org/10.1061/9780784409268>.

Goda, Katsuichiro; Yasuda, Tomohiro; Mori, Nobuhito; Mai, P. Martin, 2015, Variability of tsunami inundation footprints considering stochastic scenarios based on a single rupture model: application to the 2011 Tohoku earthquake: Journal of Geophysical Research: Oceans, v. 120, no. 6, p. 4552-4575, <https://doi.org/10.1002/2014JC010626>.

Goff, James; Weiss, Robert; Courtney, Claire; Dominey-Howes, Dale, 2010, Testing the hypothesis for tsunami boulder deposition from suspension: Marine Geology, v. 277, no. 1-4, p. 73-77, doi: 10.1016/j.margeo.2010.08.003.

Gusman, A. R.; Tanioka, Y.; Takahashi, T., 2012, Numerical experiment and a case study of sediment transport simulation of the 2004 Indian Ocean tsunami in Lhok Nga, Banda Aceh, Indonesia: Earth, Planets and Space, v. 64, no. 3, <https://doi.org/10.5047/eps.2011.10.009>.

Imamura, Fumihiko; Goto, Kazuhisa; Ohkubo, Shigeki, 2008, A numerical model for the transport of a boulder by tsunami: Journal of Geophysical Research Oceans, v. 113, no. C1, <https://doi.org/10.1029/2007JC004170>.

Jaffe, Bruce; Buckley, Mark; Richmond, Bruce; Strotz, Luke; Etienne, Samuel; Clark, Kate; Watt, Steve; Gelfenbaum, Guy; Goff, James, 2011, Flow speed estimated by inverse modeling of sandy sediment deposited by the 29 September 2009 tsunami near Satitoa, east Upolu, Samoa: Earth-Science Reviews, v. 107, no. 1-2, p. 23-37, <https://doi.org/10.1016/j.earscirev.2011.03.009>.

Jaffe, B. E.; Gelfenbaum, Guy, 2002, Using Tsunami Deposits to Improve Assessment of Tsunami Risk: Coastal Disasters Conference 2002, [https://doi.org/10.1061/40605\(258\)72](https://doi.org/10.1061/40605(258)72).

Jaffe, B. E.; Gelfenbaum, Guy, 2007, A simple model for calculating tsunami flow speed from tsunami deposits: Sedimentary Geology, v. 200, no. 3-4, p. 347-361, <https://doi.org/10.1016/j.sedgeo.2007.01.013>.

Jaffe, B. E.; Goto, Kazuhisa; Sugawara, Daisuke; Gelfenbaum, G. R., 2016, Uncertainty in Tsunami Sediment Transport Modeling: Journal of Disaster Research, v. 11, no. 4, p. 647-661, DOI:10.20965/jdr.2016.p0647.

Jaffe, B. E.; Goto, K.; Sugawara, D.; Richmond, B. M.; Fujino, S.; Nishimura, Y., 2012, Flow speed estimated by inverse modeling of sandy tsunami deposits: results from the 11 March 2011 tsunami on the coastal plain near the Sendai Airport, Honshu, Japan: Sedimentary Geology, v. 282, p. 90-109, <https://doi.org/10.1016/j.sedgeo.2012.09.002>.

James, S. C.; Jones, Craig; Grace, M. D.; Roberts, Jesse, 2010, Recent advances in sediment transport modeling: Journal of Hydraulic Research, v. 48, no. 6, p. 754-763, DOI: 10.1080/00221686.2010.515653. *Online access:* https://www.researchgate.net/publication/254248885_Recent_Advances_in_Sediment_Transport_Modeling

Jiang, Changbo; Chen, Jie; Yao, Yu; Liu, Jing; Deng, Ya, 2015, Study on threshold motion of sediment and bedload transport by tsunami waves: Ocean Engineering, v. 100, p. 97-106, <https://doi.org/10.1016/j.oceaneng.2015.03.011>.

Jimenez, J. A.; Madsen, O. S., 2003, A Simple Formula to Estimate Settling Velocity of Natural Sediments: Journal of Waterway, Port, Coastal, and Ocean Engineering, v. 129, no. 2, [https://doi.org/10.1061/\(ASCE\)0733-950X\(2003\)129:2\(70\)](https://doi.org/10.1061/(ASCE)0733-950X(2003)129:2(70)).

Johnson, J. P. L.; Delbecq, Katie; Kim, Wonsuck, 2017, Predicting paleohydraulics from storm surge and tsunami deposits: Using experiments to improve inverse model accuracy: Journal of Geophysical Research Earth Surface, v. 122, no. 4, doi:10.1002/2015JF003816.

Johnson, J. P. L.; Delbecq, Katie; Kim, Wonsuck; Mohrig, David, 2016, Experimental tsunami deposits: linking hydrodynamics to sediment entrainment, advection lengths and downstream fining: Geomorphology, v. 253, p. 478-490, doi:10.1016/j.geomorph.2015.11.004.

Kain, C. L.; Gomez, Christopher; Hart, D. E.; Chagué-Goff, Catherine; Goff, James, 2015, Analysis of environmental controls on tsunami deposit texture: Marine Geology, v. 368, p. 1-14, <https://doi.org/10.1016/j.margeo.2015.06.011>.

Kihara, Naoto; Fujii, Naoki; Matsuyama, Masafumi, 2012, Three-dimensional sediment transport processes on tsunami-induced topography changes in a harbor: Earth, Planets and Space, v. 64, no. 1, <https://doi.org/10.5047/eps.2011.05.036>.

Knighton, James; Bastidas, L. A., 2015, A proposed probabilistic seismic tsunami hazard analysis methodology: Natural Hazards, v. 78, no. 1, p. 699-723, DOI: 10.1007/s11069-015-1741-7.

Kobayashi, Nobuhisa, 2016, Coastal Sediment Transport Modeling for Engineering Applications: Journal of Waterway Port Coastal and Ocean Engineering, v. 142, no. 6, DOI: 10.1061/(ASCE)WW.1943-5460.0000347.

Kobayashi, Nobuhisa; Lawrence, A. R., 2004, Cross-shore sediment transport under breaking solitary waves: Journal of Geophysical Research Oceans, v. 109, no. C3, <https://doi.org/10.1029/2003JC002084>.

Laknath, D. P. C.; Honda, Takahide; Ito, Kazunori; Sasaki, Jun; Takayama, Yuriko; Oda, Yukinobu, 2012, Study on damages of laver aquaculture facilities in Tokyo Bay from 2011 Tohoku earthquake tsunami: Proceedings of Coastal Engineering, JSCE, Vol.3, <http://www.coastal.jp/cec-int/CEC-Int-2012/CEC-Int-2012-10.pdf>.

le Roux, J. P.; O'Brien, R. D.; Rios, F.; Cisternas, M., 2002, Analysis of sediment transport paths using grain-size parameters: Computers & Geosciences, v. 28, p. 717-721.

Lesser, G.; Roelvink, J. A.; van Kester, J. A. T. M.; Stelling, G.S., 2004, Development and validation of a three-dimensional morphological model: Coastal engineering, v. 51, no. 8-9, p. 883-915, <https://doi.org/10.1016/j.coastaleng.2004.07.014>.

Li, Linlin; Huang, Zhenhua, 2013, Modeling the change of beach profile under tsunami waves: A comparison of selected sediment transport models: Journal of Earthquake and Tsunami, v. 7, 29 p., <https://doi.org/10.1142/S1793431113500012>.

Li, Linlin; Qui, Qiang; Huang, Zhenhua, 2012, Numerical modeling of the morphological change in Lhok Nga, west Banda Aceh, during the 2004 Indian Ocean tsunami: understanding tsunami deposits using a forward modeling method: Natural Hazards, v. 64, no. 2, p. 1549-1574.

Moore, A.; Goff, J.; McAdoo, B.; Fritz, H.; Gusman, A.; Kalligeris, N.; Kalsum, K.; Susanto, A.; Suteja, D.; Synolakis, C., 2011, Sedimentary deposits from the 17 July 2006 Western Java tsunami, Indonesia – use of grain size analyses to assess tsunami flow depth, speed, and traction carpet characteristics: Pure and Applied Geophysics, v. 168, p. 1951-1961, DOI 10.1007/s00024-011-0280-8.

Nakamura, T.; Mizutani, N.; Yim, S. C., 2009, A three-dimensional coupled fluid-sediment interaction model with bed-load/suspended-load transport for scour analysis around a fixed structure: Journal of Offshore Mechanics and Arctic Engineering, v. 131, no. 3, p. 1-9, doi:10.1115/1.3124132.

Namegaya, Y.; Satake, K.; 2014, Reexamination of the AD 869 Jogan earthquake size from tsunami deposit distribution, simulated flow depth, and velocity: Geophysical Research Letters, v. 41, no. 7, p. 2297-2303, <https://doi.org/10.1002/2013GL058678>.

Nandasena, N. A. K.; Paris, Raphael; Tanaka, Norio, 2011, Numerical assessment of boulder transport by the 2004 Indian Ocean tsunami in Lhok Nga, West Banda Aceh (Sumatra, Indonesia): Computers & Geosciences, v. 37, p. 1391-1399.

Naruse, Hajime; Abe, Tomoya, 2017, Inverse tsunami flow modeling including nonequilibrium sediment transport, with application to deposits from the 2011 Tohoku-Oki tsunami: Journal of Geophysical Research Earth Surface, v. 122, no. 11, p. 2159-2182, <https://doi.org/10.1002/2017JF004226>.

Nielsen, P., 1992, Coastal bottom boundary layers and sediment transport: World Scientific Advanced Series on Ocean Engineering Volume 4, 340 p.

Nistor, Ioan; Goseberg, Nils; Stolle, Jacob, 2017, Tsunami-Driven Debris Motion and Loads: A Critical Review: Frontiers in Built Environment - Earthquake Engineering, <https://doi.org/10.3389/fbuil.2017.00002>. *Online access:* <https://www.frontiersin.org/articles/10.3389/fbuil.2017.00002/full>

Paris, Raphaël; Fournier, Jerome; Poizot, Emmanuel; Etienne, Samuel; Morin, Julie; Lavigne, Franck; Wassmer, Patrick, 2010, Boulder and fine sediment transport and deposition by the 2004 tsunami in Lhok Nga (western Banda Aceh, Sumatra, Indonesia): A coupled offshore–onshore model: Marine Geology, v. 268, no. 1-4, p. 43-54, <https://doi.org/10.1016/j.margeo.2009.10.011>.

Paris, R.; Lavigne, F.; Wassmer, P.; Sartohadi, J., 2007, Coastal sedimentation associated with the December 26, 2004 tsunami in Lhok Nga, west Banda Aceh (Sumatra, Indonesia): Marine Geology, v. 238, no. 1-4, p. 93-106, <https://doi.org/10.1016/j.margeo.2006.12.009>.

Pritchard, David; Dickinson, Laura, 2008, Modelling the sedimentary signature of long waves on coasts: implications for tsunami reconstruction: Sedimentary Geology, v. 206, no. 1-4, p. 42-57, <https://doi.org/10.1016/j.sedgeo.2008.03.004>.

Rara, Vaclav; Arango, Cristina; Puncochar, Petr; Trendafiloski, Goran; Ewing, Chris; Podlaha, Adam; Vatvani, Deepak; and Van Ormondt, Maarten, 2014, A Probabilistic Tsunami Model For Chile: Proceedings 11th International Conference on Hydroinformatics, https://academicworks.cuny.edu/cc_conf_hic/452.

Samaras, A. G.; Karambas, T. V.; Archetti, R., 2015, Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean: Ocean Science, v. 11, p. 643-655, doi:10.5194/os-11-643-2015.

Sasaki, Jun; Ito, Kazunori; Suzuki, Takayuki; Wiyono, R. U. A.; Oda, Yukinobu; Takayama, Yuriko; Yokota, Kanako; Furuta, Atsushi; Takagi, Hiroshi, 2018, Behavior of the 2011 Tohoku Earthquake

Tsunami and Resultant Damage in Tokyo Bay, Coastal Engineering Journal, v. 54, no. 1, p. 1250012-1-1250012-26, DOI: 10.1142/S057856341250012X.

Shi S.; Dawson A.G.; Smith D.E., 1995, Coastal Sedimentation Associated with the December 12th, 1992 Tsunami in Flores, Indonesia. IN Imamura, Fumihiko; Satake, Kenji, editors, Tsunamis: 1992-1994: Springer Pageoph Topical Volumes, p. 525-536, https://doi.org/10.1007/978-3-0348-7279-9_9.

Simpson, G.; Castelltort, S., 2006, Coupled model of surface water flow, sediment transport and morphological evolution: Computers & Geosciences, v. 32, no. 10, p. 1600–1614, <https://doi.org/10.1016/j.cageo.2006.02.020>.

Sugawara, Daisuke, 2017, Evolution of Numerical Modeling as a Tool for Predicting Tsunami-Induced Morphological Changes in Coastal Areas. IN Santiago-Fandino, Vicente; Sato, Shinji; Maki, Norio; Iuchi, Kanako, editors, The 2011 Japan Earthquake and Tsunami: Reconstruction and Restoration: Springer, p. 451-467.

Sugawara, Daisuke; Goto, Kazuhisa; Jaffe, B. E., 2014, Numerical models of tsunami sediment transport — Current understanding and future directions: Marine Geology, v. 352, p. 295-320, <https://doi.org/10.1016/j.margeo.2014.02.007>.

Sugawara, Daisuke; Takahashi, Tomoyuki, 2014, Numerical simulation of coastal sediment transport by the 2011 Tohoku-Oki earthquake tsunami. Chapter 4. IN Kontar, Y. A.; Santiago-Fandino, V.; Takahashi, T., editors, Tsunami events and lessons learned: Springer, Advances in Natural and Technological Hazards Research, v. 35, p. 99-112.

Sugawara, Daisuke; Takahashi, Tomoyuki; Imamura, Fumihiko, 2014, Sediment transport due to the 2011 Tohoku-oki tsunami at Sendai: Results from numerical modeling: Marine Geology, v. 358, p. 18-37, <https://doi.org/10.1016/j.margeo.2014.05.005>.

Syamsidik; Fahmi, Mirza; Al'ala, Musa; Tursina, 2016, Tsunami Wave Impacts on Coastal Morphological Changes and One-Decade Process of Coastal Line Recovery after the 2004 Indian Ocean Tsunami around Banda Aceh, Indonesia: The 26th International Ocean and Polar Engineering Conference, 26 June-2 July, Rhodes, Greece.

Syamsidik; Istiyanto, D. C., 2013, Tsunami mitigation measures for tsunami prone small islands: Lessons learned from the 2010 tsunami around the Mentawai Islands of Indonesia: Journal of Earthquake and Tsunami, v. 7, 14 p., <https://doi.org/10.1142/S1793431113500024>.

Syamsidik; Tursina; Meutia, Asrita; Al'ala, Musa; Fahmi, Mirza; Meilianda, Ella, 2017, Numerical Simulations of Impacts of the 2004 Indian Ocean Tsunami on Coastal Morphological Changes Around the Ulee Lheue Bay of Aceh, Indonesia: Journal of Earthquake and Tsunami, v. 11, 19 p., <https://doi.org/10.1142/S179343111740005X>.

Takahashi, Tomoyuki; Shuto, Nobuo; Imamura, Fumihiko; Asai, Daisuke, 2012, Modeling Sediment Transport due to Tsunamis with Exchange Rate between Bed Load Layer and Suspended Load

Layer: 27th International Conference on Coastal Engineering (ICCE), p. 1508-1519,
[https://doi.org/10.1061/40549\(276\)117](https://doi.org/10.1061/40549(276)117).

Tang, Hui; Wang, Jianxun; Weiss, Robert; Xiao, Heng, 2018, TSUFLIND-EnKF: Inversion of tsunami flow depth and flow speed from deposits with quantified uncertainties: Marine Geology, v. 396, p. 16-25, <https://doi.org/10.1016/j.margeo.2016.11.009>.

Tang, Hui; Weiss, Robert, 2015, A model for tsunami flow inversion from deposits (TSUFLIND): Marine Geology, v. 370, p. 55-62, <https://doi.org/10.1016/j.margeo.2015.10.011>.

Tehranirad, B.; Kirby J. T.; Grilli, S. T.; Shi, F., 2017, Does morphological adjustment during tsunami inundation increase levels of hazard?. IN Wallendorf, Louise; Cox, D. T., editors, Coastal structures and solutions to coastal disasters 2015: Resilient coastal communities: American Society of Civil Engineers, p. 145-153, <https://doi.org/10.1061/9780784480311.015>.

Tehranirad, B.; Kirby, J. T.; Shi, F., (in press), A model for tsunami-induced morphology adjustment: Coastal Engineering.

Tursina; Syamsidik, 2017, Numerical simulations of land cover roughness influence on tsunami inundation in Ulee Lheue Bay, Aceh-Indonesia: IOP Conference Series, Earth and Environmental Science, v. 56, no. 1, 10 p., DOI:10.1088/1755-1315/56/1/012009.

Van Veen, B. A. D.; Vatvani, D.; Zijl, F., 2014, Tsunami flood modelling for Aceh and west Sumatra and its application for an early warning system: Continental Shelf Research, v. 79, p. 46-53, DOI: 10.1016/j.csr.2012.08.020.

Wilson, G.; Hay, A. E., 2015, Acoustic backscatter inversion for suspended sediment concentration and size: A new approach using statistical inverse theory: Continental Shelf Research, v. 106, p. 130-139, <http://dx.doi.org/10.1016/j.csr.2015.07.005>.

Wilson, G.; Hay, A. E.; Bowen, A. J., 2014, Observations of wave shear stress on a steep beach: Journal of Geophysical Research: Oceans, v. 119, no. 11, p. 7827-7839, <http://dx.doi.org/10.1002/2014JC010193>.

Wilson, G.; Özkan-Haller, H. T.; Holman, R. A.; Haller, M. C.; Honegger, D. A.; Chickadel, C. C., 2014, Surf zone bathymetry and circulation predictions via data assimilation of remote sensing observations: Journal of Geophysical Research: Oceans, v. 119, no. 3, p. 1993-2016, <http://dx.doi.org/10.1002/2013JC009213>.

Wilson, G.; Özkan-Haller, H.; Holman, R. A., 2013, Quantifying the length-scale dependence of surf zone advection: Journal of Geophysical Research: Oceans, v. 118, no. 5, p. 2393-2407, <http://dx.doi.org/10.1002/jgrc.20190>.

Wilson, Rick; Davenport, Clif; Jaffe, Bruce, 2012, Sediment scour and deposition within harbors in California (USA), caused by the March 11, 2011 Tohoku-oki Tsunami: Sedimentary Geology, v. 282, p. 228-240, doi:10.1016/j.sedgeo.2012.06.001.

Witter, R. C.; Jaffe, B.; Zhang, Y.; Priest, G., 2012, Reconstructing hydrodynamic flow parameters of the 1700 tsunami at Cannon Beach, Oregon, USA: Natural Hazards, v. 63, no. 1, p. 223-240, doi:10.1007/s11069-011-9912-7.

Witter, R. C.; Zhang, Y.; Wang, K.; Priest, G. R.; Goldfinger, C.; Stimely, L. L.; English, J. T.; Ferro, P. A., 2011, Simulating tsunami inundation at Bandon, Coos County, Oregon, using hypothetical Cascadia and Alaska earthquake scenarios: Oregon Department of Geology and Mineral Industries Special Paper, v. 43, p. 57.

Witter, R. C.; Zhang, Y. J.; Wang, K.; Priest, G. R.; Goldfinger, C.; Stimely, L.; English, J. T.; Ferro, P. A., 2013, Simulated tsunami inundation for a range of Cascadia megathrust earthquake scenarios at Bandon, Oregon, USA: Geosphere, v. 9, no. 6, p. 1783-1803, <https://doi.org/10.1130/GES00899.1>.

Yamaguchi, Naofumi; Sekiguchi, Tomohiro, 2015, Effects of tsunami magnitude and terrestrial topography on sedimentary processes and distribution of tsunami deposits in flume experiments: Sedimentary Geology, v. 328, p. 115-121, <https://doi.org/10.1016/j.sedgeo.2015.08.008>.

Yeh, H.; Mason, H. B., 2014, Sediment response to tsunami loading: Mechanisms and estimates: Geotechnique, v. 64, no. 2, p. 131-143, <https://doi.org/10.1680/geot.13.P.033>.

Yoshii, Takumi; Tanaka, Shiro; Matsuyama, Masafumi, 2018, Tsunami inundation, sediment transport, and deposition process of tsunami deposits on coastal lowland inferred from the Tsunami Sand Transport Laboratory Experiment (TSTLE): Marine Geology, <https://doi.org/10.1016/j.margeo.2018.03.007>.

Zhang, Y. J.; Ye, F.; Stanev, E. V.; Grashorn, S., 2016, Seamless cross-scale modeling with SCHISM: Ocean Modelling, v. 102, p. 64-81, <https://doi.org/10.1016/j.ocemod.2016.05.002>.

PROJECTS & RESEARCHERS

- Bruce Jaffe USGS
- Guy Gelfenbaum USGS
- Kazu Goto (Tohoku University)
- Daisuke Sugawara (daisuke1_sugawara@pref.shizuoka.lg.jp; Museum of Natural and Environmental History, Shizuoka)
- Solomon C. Yim Oregon State <http://cce.oregonstate.edu/yim>
- Harry Yeh Oregon State <http://cce.oregonstate.edu/yeh>
- Philip L-F. Liu Cornell University <http://www.cee.cornell.edu/people/profile.cfm?netid=pll3>
- Delft3d <https://oss.deltares.nl/web/delft3d>
- <http://www.earthobservatory.sg/project/sediment-transport-processes-under-tsunami-waves-%E2%80%93-case-study-tsunami-deposits-coastal-cave>
- <http://www.civil.uq.edu.au/coastal-research-projects>
- http://sites.nationalacademies.org/pga/PEER/PEERscience/PGA_152042
- James Kirby https://www.udel.edu/kirby/kirby_presentations.html
- Patrick Lynett, Aykut Ayca <http://coastal.usc.edu/index.html>
- Joel Johnson https://www.jsg.utexas.edu/researcher/joel_johnson/
- https://oss.deltares.nl/c/document_library/get_file?uuid=85e3e3c2-af4f-4e0a-ba40-2bdebe31e624&groupId=21119
- <http://www.coastalconference.com/2011/papers2011/Sean%20Garber%20Full%20Paper.pdf>
- http://isec.nacse.org/workshop/2011_orst/Zaron.pdf
- <https://mvgarcia.sdsu.edu/blog/wp-content/uploads/2016/02/2014-09-Valera-Garcia-TsunamiComp-Submitted.pdf>
- https://www.researchgate.net/profile/David_Hanslow/publication/261368352_Progress_towards_an_understanding_of_tsunami_risk_in_NSW/links/5698606708aea2d74375f9cd/Progress-towards-an-understanding-of-tsunami-risk-in-NSW.pdf
- https://www.ess.washington.edu/content/people/student_publications_files/elizabeth-martin--maria/martin_dis.pdf
- https://www.ess.washington.edu/content/people/student_publications_files/tiel-macinnes-breanyn/MacInnesDissertation2010.pdf
- https://www.ess.washington.edu/content/people/student_publications_files/sullivan--david/Sullivan_2008.pdf
- https://www.ess.washington.edu/content/people/student_publications_files/higman--bretwood/higman_bretwood_phd-2007.pdf