

Robert Weiss

Department of Geosciences
Virginia Tech
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Education (all in Germany)

Dr. rer. nat. (PhD, *Summa Cum Laude*), Westfälische–Wilhelms-University, Münster, 2005.
Diploma (equivalent to M.S.) Geoscience, Friedrich–Schiller-University, Jena, 2002.
Pre-Diploma (equivalent to B.S.) Geosciences, Friedrich–Schiller–University, Jena, 1999.

Academic Positions

Associate Professor (2014 – present)

Assistant Professor (2011 – 2014)

Department of Geosciences, Virginia Tech, Blacksburg, VA.

Assistant Professor (2008 –2011)

Department of Geology & Geophysics, Texas A&M University, College Station, TX.

Visiting Scientist (Research Scientist, 2005 – 2008)

Joint Institute for the Study of Atmosphere and Ocean, University of Washington, Seattle, WA.

Proposals and Funded Research (Total: \$2,951,866 (Weiss: \$1,171,046))

Current :

1. Collaborative Research: Tsunami and Tropical Storm Sediment Dynamics and Products, NSF-GLD-1630099, Total: \$498,942 (**Weiss, PI: \$160,214**)
2. Collaborative Research: The 2015 Taan Fjord landslide tsunami: An interdisciplinary study of cause & effect, NSF-GLD-1638979, Total: \$250,000 (**Weiss, coPI: \$25,000**)
3. NEESR: Tsunami run-up and withdrawal dynamics on a sloping beach with discontinuous macro-roughness, NSF-CMMI-1206271, Total: \$727,803 (**Weiss, coPI: \$280,000**)

Past:

1. NEESR: Interaction of tsunamis and bottom sediments – Numerical and physical modeling, NSF-CMMI-1208147, Total: \$949,676 (**Weiss, coPI: \$300,000**).
2. The Role of Shoreline and Bottom Type Dynamics in Understanding Barrier Island Vulnerability and Resiliency: Episodic Events , Northrop Grumman Corporation, Total: \$189,058 (**Weiss, coPI: \$90,000**).
3. Workshop: Tsunami sedimentology and its role in hazard awareness, preparedness, assessment and mitigation. NSF-EAR-1137611, June 2011 - May 2012, **\$47,000**, PI: **R. Weiss**
4. RAPID: Observations of sediment scour and deposition in the vicinity of ports and harbors from the 11 March 2011 Japan tsunami, NSF-EAR-1136534, May 2011 – Apr. 2012, \$71,555, PI: **R. Weiss (\$58,000)**.
5. RAPID: Observations of physical impacts following Hurricane Sandy, NSF-EAR-1312813, **\$27,910**, PI: **Weiss (\$20,910)**.
6. Collaborative Research: Initial Wave Characteristics from Deformable Submarine Slides, NSF-ENG-0928654, Oct., 2009 – Mar., 2012, **\$132,922**, PI: **R. Weiss**.
7. Submarine landslides and associated tsunami risk: Combining observations and an integrated modeling approach, Subcontract from Kiel Cluster of Excellence “The Future Ocean”, University of Kiel, 06/2010 – 08/2011, \$37,000, Pi: **R. Weiss**.
8. Verification and Testing of Landslide-generated Tsunami Models, NOAA-NCTR, Feb. 2009 – Sept, 2009, \$20,000, PI: **R. Weiss**

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Teaching

Texas A&M University (Teaching evaluation – 4.3/5.0):

1. GEOL 668 – Clastic Sedimentology and Sedimentary Petrology: Fall08, Fall09, Fall10
2. GEOL 306 – Introduction to Sedimentology and Stratigraphy: Spring09, Spring10, Spring11
3. GEOL 681 – Basin Analysis Seminar: Fall08
4. GEOL 310 – Planetary Geology: Spring11

Virginia Tech:

1. GEOS 2104 – Elements of Geosciences: Spring12, Spring13, Fall13, Fall15, Fall16
2. GEOS 3034 – Oceanography: Spring14, Spring14
3. GEOS 6604 – Simulation and Modeling in Geosciences, Fall12, Fall13, Fall14, Fall16 Fall15
4. GRAD 5134 – Disaster Resilience, Fall14, Fall15
5. GEOS 4984/6104 – Quantitative Geosciences, Spring17

Advising and Student Committees

Chair: Graduate Students (Total: 7):

Current:

1. Hui Tang (Fall12 – present, PhD, Geophysics, VT)
2. Roberto Marivala-Colmenarejo (Spring13 – present, PhD, Geophysics, VT)

Past:

1. Amir Zainali (Spring13 – Fall16, PhD, Geophysics, VT)
2. Cheng Wei (Fall10 – Fall15, PhD, Geophysics, VT)
3. Matthew Wehner (Fall09 – Spring12, PhD, Geology, TAMU)
4. Justin O'Shay (Spring10 – Spring12, M.S., Geophysics, TAMU)
5. Chandan Tankala (Spring10 – Spring12, M.S. Geophysics, TAMU)

Committee: Graduate Students (Total: 14):

Current:

1. Jianxun Wang, (AOE, PhD, Fall 2013 – present)
2. Yi Liu, (CEE, PhD, Fall 2013 - present)

Past:

1. Gungor D. Beskardes, (GEOS, PhD, Fall 2012 - Fall13, changed adviser)
2. Stephanie Smallegan (CEE, PhD, Fall12 – Fall15)
3. Yongqian Yang (CEE, PhD, Fall12 – Fall16)
4. Nicholas Taylor (CEE, M.S., Fall12 – Fall14)
5. Sharmin Shamsalsadati (GEOS, PhD, 2013)
6. Erin Rooney (MS in Civil Engineering, TAMU, 2011)
7. Spencer Gunderson (MS in Geology, TAMU, 2011)
8. Arturo Martinez (MS in Ocean Engineering, TAMU, 2011)
9. Hillary Hall (MS in Oceanography, TAMU, 2010)
10. Kannipa Motanated (MS in Geology, TAMU, 2010)
11. Breanyn MacInnes (University of Washington, Seattle, PhD in Geology, 2010)
12. Pascal Noel (MS in Petroleum Engineering, TAMU, 2009)

Undergraduate Students (Total: 3; Senior Thesis, Research):

1. Sarah Spencer (URS, Fall10 – Spring11, Geology)
2. Andrew Munoz (URS, Fall09 – Fall10, Geophysics, 2010)
3. Justin O'Shay (Research, Spring09 – Fall09, Geophysics)

Affiliations

American Geophysical Union (AGU), European Geoscience Union (EGU), International Tsunami Survey Team (ITST), American Society of Civil Engineers' Coasts, Oceans, Ports and Rivers Institute (ASCE-COPRI).

Reconnaissance Field Surveys

1. 2015 Taan Tsunami: Ice Bay, Taan Fjord, Alaska
2. 2012 Hurricane Sandy: Long Island, NY and New Jersey
3. 2011 Japan Tsunami: Galapagos, Midway
4. 2010 Chilean Tsunami: Chile
5. 2009 Samoa Tsunami: American Samoa, Western Samoa
6. 2004 Sumatra Tsunami: India, Kenya

Journal Papers (Printed or in press: 44; *Graduate student, † Undergraduate student)

In review: Accessible at arXiv.org

1. **Weiss, R.** and Sheremet, A.: Toward a New Paradigm for Boulder Dislodgement during Storms, *submitted to Geochemistry, Geophysics, Geosystems*, arXiv:1703.05071v1 [physics.geo-ph].
2. *Wang**, J., *Tang**, H., **Weiss, R.** and Xiao, H.: Inversion of Tsunamis Characteristics from Sediment Deposits Based on Ensemble Kalman Filtering, *submitted to Journal of Advances in Modeling Earth Systems*, arXiv:1511.03307 [physics.geo-ph]
3. *Zainali**, A., *Marivela**, R., **Weiss, R.**, Irish, J.L., *Yang, Y.*: Numerical simulation of nonlinear long waves interacting with arrays of emergent cylinders, *in revision from Marine Geology*, arXiv:1610.00687 [physics.geo-ph].
4. *Tang**, H., **Weiss, R.**: GeoClaw-STRICHE: A coupled model for Sediment TRansport In Coastal Hazard Events, *in revision from Computational Geodynamics*, arXiv:1609.04791 [physics.geo-ph].

Printed or in press:

1. *Marivela**, R., **Weiss, R.**, Synolakis, C. (2017): The Temporal and Spatial Evolution of Momentum, Kinetic Energy and Force in Tsunami Waves during Breaking and Inundation, *in press at the Journal of Waterway, Port, Coastal, and Ocean Engineering*.
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2. *Tang**, H., *Wang**, J., **Weiss, R.**, Xiao, H.(2016): TSUFLIND-EnKF inversion model applied to tsunami deposits for estimation of transient flow depth and speed with quantified uncertainties, *in press at Marine Geology*, arXiv:1601.03788 [physics.geo-ph].
 3. *Yang**, Y., Irish, J.L, **Weiss, R.** (2016): Impact of Patchy Vegetation on Tsunami Dynamics, *in press at the Journal of Waterway, Port, Coastal, and Ocean Engineering*.
 4. Li, L., Switzer, A.D., Chan, C.-H., Wang, Y., **Weiss, R.** and Qiu, Q. (2016): How heterogeneous coseismic slip affects regional probabilistic tsunami hazard assessment: A case study in the South China Sea, *J. Geophys. Res. Solid Earth*, 121, 6250–6272, doi:10.1002/2016JB013111.
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5. *Tang**, H. and **Weiss, R.** (2015): A Model for TSUunami FLOW INversion from Deposits (TSU-FLIND), *Marine Geology*, 370, 55 – 62.
 6. Li, L., Switzer, A.D., Wang, Y., **Weiss, R.**, Qui, Q., Chan, Ch-H., Tapponnier, P: What caused the mysterious 18th century tsunami that struck the southwest Taiwan coast?, *in press at Geophysical Research Letters*.

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7. Wünnemann, K. and **Weiss, R.** (2015): The meteorite impact-induced tsunami hazard, *in press at Phil. Trans. R. Soc. A.*
 8. *Zainali**, A. and **Weiss, R.** (2015): Boulder Dislodgement and Transport by Tsunami and Storm Waves: Insights from Three-Dimensional Numerical Simulations, *Geophysical Research Letters*, 42, 4490 – 4497.
 9. **Weiss, R.**, Diplas, P. (2015): Untangling boulder dislodgment in storms and tsunamis: Is it possible with simple theories?, *Geophysics, Geochemistry, Geosystems*, 16 (3), 890–898.
 10. *Shadloo**, M.S., **Weiss, R.**, Yildiz, M., Dalrymple, R.A. (2015): Numerical Simulation of Long Wave Run-up for Breaking and non-Breaking Waves, *in press at International Journal of Offshore and Polar Engineering*, 25, 1-7.
 11. **Weiss, R.**, Lynett, P., Wünnemann, K. (2015): The Eltanin impact and its tsunami along the coast of South America: Insights for potential deposits, *Earth and Planetary Science Letters* 409, Pages 175-181.
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12. Irish, J.L., **Weiss, R.**, *Yang**, Y., *Song**, Y. K., *Zainali**, A., *Marivela-Colmenarejo**, R.: Large scale experiments of tsunami runup and withdrawal in patchy coastal forest on a steep beach, *Natural Hazards*, 74(3), 1933-1949.
 13. Spiske, M., Bahlburg, H., **Weiss, R.** (2014): Pliocene mass failure deposits mistaken as submarine tsunami backwash sediments - an example from Hornitos, Northern Chile. *Sedimentary Geology*, 305, 69-82.
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14. Irish, J.L., Lynett, P.J., **Weiss, R.**, *Smallegan**, S.M., *Cheng**, W (2013): Relic seawall saves community from total devastation by Hurricane Sandy, *Coastal Engineering*, 80, 79-82.
 15. *Martin-Arcos**, M.E.¹, *MacInnes**, B.T.², *Arreaga**, P.³, Rivera-Hernandez, F., **Weiss, R.**, Lynett, P. (2013): An amalgamated meter-thick sedimentary package enabled by the 2011 Tohoku tsunami in El Garrapatero, Galapagos Islands, *Quaternary Research*, 80(1), 9-19.
 16. **Weiss, R.**, Krastel, S., *Anesetti**, A., Wünnemann, K. (2013): Constraining the characteristics of tsunami waves from deformable landslides, *Geophysical Journal International*, 194(1), 316-321.
 17. *Wei**, C. and **Weiss, R.** (2013): On sediment extent and runup of tsunami waves, *Earth and Planetary Science Letters*, 362(1), 305-309.
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18. Lynett, P., **Weiss, R.**, *Renteria**, W., De La Torre Morales, G., Son, S., *Martin-Arcos**, M.E.¹, *MacInnes**, B.T.² (2012): Coastal Impacts of the March 11th Tsunami in the Galapagos Islands, *Pure and Applied Geophysics*, 170, 1189-1206.
 19. *Renteria**, W., Lynett, P., **Weiss, R.**, De La Torre Morales, G. (2012): Informe de la investigacion de campo de los efectos de tsunami de Japon marzo 2011, en las Islas Galapagos, *Acta Oceanografica del Pacifico*, 17(1), 177-203.
 20. **Weiss, R.** and Bourgeois, J. (2012): Understanding Sediments – Reducing Tsunami Risk, *Science, Perspectives in Geology*, 336, 1117-1118. ⁴
 21. Lynett, P.J., Borrero, J.C., **Weiss, R.**, *Son**, S., Greer, D., *Renteria**, W. (2012): Observations and Modeling of Tsunami-Induced Currents in Ports and Harbors, *Earth and Planetary Science Letters*, 327-328, 68-74.

¹Graduate student at the time of study; now professional

²Graduate student at the time of study; now Assistant Professor at CWU

³Graduate student at University of Washington

⁴It was peer-reviewed with two revision from peer-review and editor.

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22. **Weiss, R.** (2012): The mystery of boulders moved by tsunami and storm, *Marine Geology*, 295-298, 28-33.

23. Fritz, H.M., Petroff, C.M., Catalan, P.A., Cienfuegos, R., Winckler, P., Kalligeris, N., **Weiss, R.**, Barrientos, S.E., Meneses, G., Valderas-Bermejo, C., Almar, R., Dominguez, J.C. and Synolakis, C.E. (2011): Runup variability of the 27 February 2010 Chile tsunami, *Pure and Applied Geophysics*, 168(11), 1989-2010.
24. Fritz, H.M., Borrero, J.C., Synolakis, C.E., Okal, E.A., **Weiss, R.**, Titov, V.V., Jaffe, B.E., *Foteinidis**, S., Lynett, P.J., *Chan**, I.-C., Liu, P L.-F. (2011): Insight on Samoa and Tonga tsunamis, *Earth Science Reviews*, 107(1-2), 66-75.

25. Wünnemann K., Collins, G., **Weiss, R.** (2010): The impact of a cosmic body into Earth's ocean and the generation of large tsunami waves – insights from numerical modeling, *Reviews of Geophysics*, 48, RG4006.
26. Goff, J., **Weiss, R.**, *Courtney**, C., Dominey-Howes, D. (2010): Testing the hypothesis for tsunami boulder deposition from suspension, *Marine Geology*, 277, 73-77.
27. *MacInnes**, B.T., **Weiss, R.**, Bourgeois, J., and T.K. Pinegina, (2010): Slip-distribution of the 1952 Kamchatka great earthquake based on nearfield tsunami deposits and historical records, *Bulletin of the Seismological Society of America*, 100(4), 1695-1709.
28. **Weiss, R.** *Munoz†*, A., Dalrymple, R.A., Herault, A., Bilotta, G. (2010): Three-dimensional modeling with long-wave sunup: Simulation of tsunami inundation with GPU-SPHysics, current.8, Proceedings of the 32nd Conference on Coastal Engineering, Shanghai, China. ¹
29. Bahlburg, H., **Weiss, R.**, Wünnemann K. (2010): Low energy deposition in the Chicxulub crater during the impact to post-impact transition, *Earth and Planetary Science Letters*, 295, 170-176.
30. Okal, E.A., Fritz, H.M., Synolakis, C.E., Borrero, J.C., **Weiss, R.**, Lynett, P.J., Titov, V.V., *Foteinidis**, S., Jaffe, B.E., Liu, P L.-F., *Chan**, I.-C. (2010): Field Survey of the Samoa Tsunami of 29 September 2009, *Seismological Research Letters*, 81(4), 577-591.
31. Bahlburg, H., *Spiske**, M., **Weiss, R.** (2010): Comment on “Sedimentary features of tsunami backwash deposits in a shallow marine Miocene setting, Mejillones Peninsula, northern Chile” by G. Cantalamessa and C. Di Celma [Sedimentary Geology 178 (2005) 259-273]”, *Sedimentary Geology*, 228, 77-80.
32. *Spiske**, M., **Weiss, R.**, Bahlburg, H. (2010): The application of the TsuSedMod inversion model for the estimation of flow depth and speed of the 2004 Sumatra and 2006 Java tsunamis and implications for paleo-tsunami research, *Sedimentary Geology*, 224, 29-37.

33. Borrero, J.C., **Weiss, R.**, Okal, E. A., Rahman Hidayat, Suranto, Arcas, D. and Titov, V. V. (2009): The tsunami of 2007 September 12, Bengkulu province, Sumatra, Indonesia: post-tsunami field survey and numerical modelling, *Geophysical Journal International*, 178, 180-194.
34. **Weiss, R.**, Fritz, H. and Wünnemann, K. (2009): Hybrid modeling of the mega tsunami runup in Lituya Bay after half a century, *Geophysical Research Letters*, 36, L09609.
35. Bourgeois, J and **Weiss, R.** (2009): “Chevrons” are not mega-tsunami deposits – a sedimentologic assessment, *Geology*, 37(5), 403-406.

36. **Weiss, R.** (2008): Sediment grains moved by passing tsunami waves: Tsunami deposits in deep water, *Marine Geology*, 250, 251-257.

¹This is a conference proceedings, but was peer-reviewed.

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37. Wei, Y, Bernard, E. N., Tang, L., **Weiss, R.**, Titov, V.V., Moore, C., Spillane, M., Hopkins, M. and Kanoglu, U. (2008): Real-time experimental forecast of the Peruvian tsunami of August 2007 for U.S. coastlines, *Geophysical Research Letters*, 35, L04609.
 38. *Martin**, M.E., **Weiss, R.**, Bourgeois, J., Pinegina, T.K., Houston, H., Titov, V.V. (2008): Combining constraints from tsunami modeling and sedimentology to untangle the 1969 Ozernoi and 1971 Kamchatskii tsunamis, *Geophysical Research Letters*, 35, L01610 DOI:10.1029/2007GL032349.
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39. Huntington, K., Bourgeois, J., Gelfenbaum, G., Lynett, P., Jaffe, B., Yeh, H, **Weiss, R.** (2007): Sandy signs of tsunami onshore depth and speed, *EOS, Transactions, American Geophysical Union*, 88(52), 577-578.
 40. Wünnemann K., **Weiss, R.**, *Hofmann†*, K (2007): Wave characteristics of impact-induced large waves – Reevaluation of the tsunami hazard, *Meteoritic and Planetary Science*, 72, 1-11.
 41. Bahlburg, H., **Weiss, R.** (2007): Sedimentology of the December 26, 2004, Sumatra Tsunami deposits in intermediate and large distances, Eastern India (Tamil Nadu) and Kenya, *International Journal of Earth Sciences*. DOI 10.1007/s00531-006-0148-9.
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42. **Weiss, R.**, Wünnemann K., Bahlburg H. (2006): Numerical modeling of generation, propagation and run-up of tsunamis caused by oceanic impacts: model strategy and technical solutions, *Geophysical Journal International*. DOI: 10.1111/j.1365-246X.2006.02889.
 43. **Weiss, R.**, Bahlburg, H. (2006): The impact of the December 26, 2004 Sumatra Tsunami on the coast of in Kenya, *Earthquake Spectra*, Vol. 22(S3), June 2006. 235–240.
 44. **Weiss, R.**, Bahlburg, H. (2006): A note on the preservation potential of offshore tsunami deposits, *Journal of Sedimentary Research*. Vol. 76, DOI: 10.2110/jsr.2006.110.

Impact Factors (>1):

Science: 31.364	Geophysics, Geochemistry, Geosystems: 2.923
Reviews of Geophysics: 13.906	Marine Geology (2): 2.521
Earth-Science Reviews: 6.942	International Journal of Earth Sciences: 2.445
Geology: 4.368	Geophysical Journal International: 2.435
Earth and Planetary Science Letters: 4.062	Sedimentary Geology: 1.957
Meteoritic and Planetary Science: 3.25	Journal of Sedimentary Research: 1.890
Geophysical Research Letters: 3.204	Bull of the Seismological Society of America: 1.86

Book Chapters, Reports and Theses (Total: 6)

1. Irish, J. L., **Weiss, R.**, and Resio, D. T., Physical characteristics of coastal hazards, Springer Handbook of Ocean Engineering, M. Dhanak and N. Xiros, eds., in press.
2. **Weiss, R.** and Bourgeois, J. (2012): Tsunami Deposits: A Broader Perspective – Tsunami Sedimentology and Its Role in Hazard Awareness, Preparedness, Assessment, and Mitigation; San Francisco, California, 2-3 December 2012. *EOS, Transactions, American Geophysical Union*, 93(18), 180.
3. Gonzalez F.I., Bernard E., Dunbar P., Geist E., Jaffe B., Kanoglu U., Locat J., Mofjeld H., Moore A., Synolakis C., Titov V., and **Weiss R.** (Science Review Working Group) (2007): Scientific and technical issues in tsunami hazard assessment of nuclear power plant sites. NOAA Tech. Memo. OAR PMEL-136, Pacific Marine Environmental Laboratory, Seattle, WA, 125 pp. + appendices on CD.
4. **Weiss, R.**, Wünnemann K. (2007): Large waves caused by oceanic impacts of meteorites. In: Kundu A (ed) *Tsunamis and Nonlinear Waves*, Springer, New York Heidelberg. 235–260.

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5. **Weiss, R.** (2005): Modeling of generation, propagation and run-up of tsunami waves caused by oceanic impacts, Doctoral Thesis, Geologisch-Paläontologisches Institut und Museum, WWU Münster, 96pp.
6. **Weiss, R.** (2002): The influence of water salinity on the formation of small scale ripples ??? a theoretical approach, Diploma Thesis, Institut of Earthscience, FSU Jena, 61pp.

Invited talks and seminars (Total: 16)

1. *TSUFLIND-EnKF: Inversion of Tsunami Flow Conditions with Quantified Uncertainty*, IGCP Project 639 “Sea-level change from Minutes to Millenia”, 9 - 14 November 2016, Muscat, Oman (invited plenary talk).
2. *Meso-scale Modeling of Sediment Deposition, Transport and Erosion During Tsunamis and Hurricanes*, Department of Earth and Ocean Sciences, University of South Carolina, Columbia, South Carolina, 4 December 2014.
3. *Meso-scale Modeling of Sediment Deposition, Transport and Erosion During Tsunamis and Hurricanes*, Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, Minnesota, 15 October 2014.
4. *Sediment in tsunamis and storms: Sand and boulders*, Seminar of the Naval Research Laboratory, John C. Stennis Space Center, Stennis, Mississippi, 26 June 2013.
5. *Transport processes that cause tsunamis and are caused by tsunamis*, King Abdulaha University of Science and Technology, Saudi Arabia, 7 February 2012.
6. *Tsunami Sediment Transport*, Westfälische–Wilhelms-University, Münster, 14 November 2011.
7. *ISOS Lectures on Big Questions: Tsunami and Tsunami Risk*, Integrated School of Ocean Sciences, University of Kiel, Germany, 31 May, 2011.
8. *Tsunami sediments: From “Every grain of sand” to “Like a rolling stone.”*, Department of Geosciences, Virginia Tech, March 2011.
9. *Tsunamis due to Meteorite impacts into Marine Environments*, Invited talk in the session “Planetary Sciences: Comets and Small Bodies”, NH 6022, AGU Fall Meeting, San Francisco, 14–18 December 2009.
10. *Tsunami Sediments: Some theoretical aspects*, USGS Pacific Science Center, Santa Cruz, 24 Sept 2009.
11. *Benchmark Test #1 with iSALE-2D with sneak peaks of iSALE-3D*, ISEC Community Workshop: Simulation & Large-Scale Testing of Nearshore Wave Dynamics, 8–10 July 2009 - Corvallis, Oregon.
12. *Landslides and Meteorite Impacts: Hydrocode modeling with iSALE*, Department of Mathematics, Texas A&M University, 27 Jan 2009
13. *The Lituya Bay rockslide and tsunami: Half a century later*, Leibnitz Institut für Meereswissenschaften at the University of Kiel, 9 Oct. 2008.
14. *Differences between Tsunamis and Storms – Implications for Sedimentology*, SEPM-CES, Bochum, 1–3 September 2008.
15. *iSALE: Modeling Meteorite Impacts and Landslides*, Department of Applied Mathematics, University of Washington, Seattle, 6 May 2008.
16. *Crash, Splash and Slip away*, Earth and Space Sciences, University of Washington, Seattle, 16 Nov 2007.

Conferences and Abstracts (Total: 74; *Graduate student, † Undergraduate student)

1. **Weiss, R.** and Diplas, P., Kaihatu, J. and Sheremet, A. (2015): Boulder dislodgment by tsunamis and storms: Version 2.0 (invited), American Geophysical Union Fall Meeting 2015, San Francisco abstract EP24A-03.
2. Baranes*, H., Woodruff, J., Loveless, J., Cheng*, W., **Weiss, R.**, Kanamura, K., (2015): Using present-day patterns of interseismic coupling to model the C.E. 1707 Hiei earthquake and simulate tsunami inundation of Lake Ryuuoo in the Bungo Channel, southwestern Japan, American Geophysical Union Fall Meeting 2015, San Francisco abstract NH24A-03.
3. Li, L., Switzer, A., Chan, Ch.-H., Wang, Y., **Weiss, R.**, Qui*, Q. (2015): Uniform slip model underestimates tsunami hazard for probabilistic assessment: results from a case study in the South China Sea, American Geophysical Union Fall Meeting 2015, San Francisco abstract NH23A-1865.
4. Nentwig*, V., Bahlburg, H., Tang*, H, **Weiss, R.**, Gorecka*, E., Andrzej Witkowski, Alfonso Encinas, Barbara Huber, Bellanova*, P (2015): Multi-proxy analysis of tsunami deposits the Tira, Chile, example. American Geophysical Union Fall Meeting 2015, San Francisco abstract NH24A-05.
5. Tang*, H and **Weiss, R.** (2015): GeoClawSed: A Model with Finite Volume and Adaptive Refinement Method for Tsunami Sediment Transport, Abstract NH33A-1899 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
6. Tang*, H., Wang*, J., **Weiss, R.** and Heng, X.. (2015), TSUFLIND-EnKF: Inversion of Tsunami Flow Condition with Quantified Uncertainty, presented at 2015 YCSEC meeting, Newark, De, 27-29 July.
7. Marivella*, R., **Weiss, R.**, and Synolakis, C. (2015), Destructive Potential of Breaking Solitary Waves, American Institute of Professional Geologists 52nd Annual Conference, "Fire & Ice", Anchorage, Alaska, USA, Talk.
8. Zainali*, A. and **Weiss, R.** (2015): Numerical simulation of Shallow water wave propagation around arrays of emerged bodies, 68th Annual Meeting of the APS Division of Fluid Dynamics, Volume 60, Number 21.
9. Irish, J., **Weiss, R.**, Yang*, Y., Zainali*, A., Marivella*, R. (2014): Laboratory Experiments of Tsunami Inundation in Patchy Coastal Forest on a Steep Beach, 2014 AGU Fall Meeting, NH21B-3835.
10. Kaihatu, J., Goertz*, J., Sheremet, A. and **Weiss, R.** (2014): Spectral Characteristics of Wave Breaking and Dissipation in Combined Tsunami-Swell Wave Conditions, 2014 AGU Fall Meeting, NH21B-3837.
11. Olejniczak, K., Calantoni, J., Penko, A., Palmsten, M., Sheremet, A., Kaihatu, J. and **Weiss, R.** (2014): Sector-Scanning Sonar Imagery of Laboratory Bedforms, 2014 AGU Fall Meeting, EP43C-3582.
12. Tang*, H., **Weiss, R.** and Xiao, H., Wang, J. (2014): Inversion of tsunami characteristics: Estimation of transient flow depth and speed with quantified uncertainties. 2014 AGU Fall Meeting, NH24A-08.
13. Cheng*, W. and **Weiss, R.** (2014): A new meso-scale discrete element model to study deposit differences in tsunamis and storms, 2014 AGU Fall Meeting, EP11B-07.
14. **Weiss, R.** and Zainali*, A. (2014): Boulder Dislodgement Reloaded: New insights from boulder transport and dislodgement by tsunamis and storms from three-dimensional numerical simulations with GPUSPH, 2014 AGU Fall Meeting, NH21B-3841.
15. Smallegan*, S., Keith*, S., Cheng*, W., **Weiss, R.** and Irish, J. (2014): Quantification of Distinguishing Features of Tsunami versus Hurricane Sediment Overwash Events, 2014 AGU Fall Meeting, EP13A-3499.

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16. Cheng*, W., **Weiss, R.** (2013): Deposit characteristics of suspended sediments in storms and tsunamis, Abstract NH51D-06 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
17. Zainali*, A, **Weiss, R.** (2013): Three-dimensional simulations of boulder transport by storm and tsunami waves , Abstract NH41A-1694 presented at 2013 AGU Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
18. Tang*, H, **Weiss, R.** (2013): TsuSpeedv0.5: Inversion of flow depth and flow speed along a cross section, Abstract NH41A-1695 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
19. **Weiss, R.**, Diplas, P. (2013): Initiation of Boulder Motion with the Impulse Theory: Tsunamis vs Storms, presented at the 26th International Tsunami Symposium 2013, Göceck, Turkey, 25-27 Sept.
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65. Bahlburg, H., **Weiss, R.**, Bisaccia[†], A. (2005): Parameters of inundation, run-up and deposition of the South Asian Tsunami of 26 December 2004 in southeastern India and Kenia, *GSA*, Salt Lake City, USA.
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67. **Weiss, R.**, Winter, Ch. (2005): Tsunami, tides and run-up: a numerical study, *22nd International Tsunami Symposium, Chania, Greece*.
68. Bahlburg, H., **Weiss, R.**, Bisaccia[†], A. (2005): Tsunami in the past, present and future: towards understanding of tsunami run-up, erosion and deposition by theoretical approaches and field studies, *22nd International Tsunami Symposium, Chania, Greece*.
69. **Weiss, R.**, Wünnemann K., Bahlburg, H. (2005): Modeling of generation, propagation and runup of tsunami waves caused by oceanic impacts: Deep-water impacts. *EGU General Assembly, Vienna, Austria*.
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71. **Weiss, R.**, Wünnemann K., Bahlburg, H. (2004): Modellierung von ozeanischen Einschlägen und die Fortpflanzung von Tsunami-Wellen: Wie entstehen Tsunami-Ablagerungen, *Sediment 2004 Aachen, Germany*.
72. **Weiss, R.**, Wünnemann K. (2003): Oceanic impacts, tsunamis, and the influence of water depth on the quantity and characteristics of generated waves, 3. Large Meteorite Impacts, # 4081.
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Professional Activities

1. Peer Reviewing: Science (2), Geophysical Journal International (4), International Journal of Earth Sciences (3), Geophysical Research Letters (2), Journal of Geophysical Research (5), Natural Hazards (4), Marine Geology (7), Eos (3), Reviews of Geophysics (1), International Journal for Numerical Methods in Fluids (1), Earth Science Reviews (1), Pure and Applied Geophysics (5), Computing in Science and Engineering (1)
2. Proposal Reviewing: National Science Foundation (3), Chilean Science Foundation (2), German-Israeli Science Foundation (3).
3. Academic Committees and Service:
 - TAMU**: Recruiting and Admissions Graduate Committee (Fall08 – Spring11), Computer and IT Committee (Spring10 – Spring11), Search Committee for two open positions in sedimentology and stratigraphy (Fall08 – Spring09).
 - VT**: Executive and Personal Committee (Fall11 – Spring12, Fall14), Computer Committee (Fall11 – present), Public Relation Committee (Fall11), Graduate Student Affairs Committee (Fall13 – Fall14).
4. Session organizing:
 - EGU 2010**: Sedimentary processes and diagnostic features of high energy event deposits – storm, hurricane, tsunami, SSP3.3, Convener: H. Bahlburg, Co-convener: **R. Weiss**, Vienna, Austria, May 2010.
 - ICCE 2010**: Tsunami Session, International Conference of Coastal Engineering, Shanghai, China, July 2010
 - AGU Fall Meeting 2010**: Tsunami and Storm Deposits onshore and offshore: Processes and Products, Convener: H. Bahlburg, Co-convener: **R. Weiss**, San Francisco, USA, December 2010

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- 12th International Wave Workshop and 3rd Hazards Symposium:** Tsunamis, Convener: **R. Weiss**, Kohala Cost, Big Island, Hawaii, November, 2011.
- AGU Fall Meeting 2011:** OS06 Coastal Response to Sea-Level Changes, Conveners: Benjamin Horton, **R. Weiss**, Adam Switzer, San Francisco, USA, December 2011.
- ISOPE 2012:** Invited Session on Coastal Engineering and Sediment Transport Modeling, **R. Weiss**, Rhodes, GR, June 2012.
- AOGS Meeting 2012:** OS14 Coastal change: the response of coasts to sea-level changes, geological processes and catastrophic events, **R. Weiss**, Adam Switzer, Singapore, August 2012.
- AGU Fall Meeting 2012:** Interpretation of Tsunami and Storm Deposits, Conveners: **R. Weiss**, Bruce Jaffe, Jonathan Woodruff, Joanne Bourgeois, San Francisco, USA, Dec 2012.
- 26th International Tsunami Tsunami 2013:** Tsunami and Structure, Conveners: **R. Weiss**, Göceck, Turkey, September 2013.
- AGU 2016:** Interdisciplinary Tsunami Science, NH009, Convener: **R. Weiss**, Co-conveners: B. Jaffe, R. Wilson, V. Titov, San Francisco, USA, December 2016
5. Workshops:
- Modelling tsunami propagation using the MOST model**, University of Kiel, Dec 4–6, 2008.
- NSF: Tsunami sedimentology and its role in hazard awareness, preparedness, assessment and mitigation**, San Francisco, Dec 2–4, 2011.
- Disaster Risk—Connecting Tools and Decision-Makers**, at NCSE’s 13th: National Conference on Science, Policy, and the Environment: Disasters and Environment: Science, Preparedness, and Resilience, Washington D.C., Jan. 16, 2013.
- Foresight Scenario Workshop on Energy and Environmental Security**, Johns Hopkins University, Washington, D.C., Sept. 21, 2013.
6. Media:
- Tsunami Expert in an international documentary (ZDF, Discovery Channel, France 2): *Armageddon – The longest night* (title in Europe) and *Super Comet* (title in North America)
- One minute YouTube clip produced by Texas A&M on generation of chevrons by tsunamis as a result of Bourgeois and Weiss (2009) in Geology.
- Various interview with radio stations, news papers (e.g., LA Times) and TV (e.g., KBTX, CNN, Fox News) stations after the Japan tsunami.
7. Member of the Steering Committee for the UNESCO conference: *Post-Disaster Assessment & Monitoring of Changes in Coastal, Ocean & Human Systems in the Indian Ocean & Asian Waters*, 2005–2006.
8. Chair of two workshops: *Ocean Data, Observations, Disaster Warning and Risk Reduction* on the UNESCO conference *Post-Disaster Assessment & Monitoring of Changes in Coastal, Ocean & Human Systems in the Indian Ocean & Asian Waters*, Phuket, Thailand, 20–23 February 2006.

References

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