

Alan D. Ziegler | Curriculum Vitae

Professor

Geography Department
1 Arts Link | Kent Ridge
National University of Singapore
SINGAPORE 117568
tel +65 9162 8311
fax +65 6777 3091

Field Address

61 Mu 3 Bo Hin Village
T. Sanpapao | A. Sansai
Chiang Mai 50210 THAILAND
tel +66 53 132268
fax +66 53 867262

geoadz@nus.edu.sg • thaihawk@gmail.com • www.adziegler.com

Born: 16 February 1965 | Madison, Kansas USA (USA Citizenship)

Permanent Address: c/o M.K. Curry – 1710 Alabama St, Lawrence, Kansas 66044 USA, +1 785 841 2918

Languages: English (native); Thai (intermediate); French (reading); Mandarin Chinese (beginning)

Brief summary

Research Area: Water resources; hydro-geomorphological processes; medical hydrology

Publications: 109 journal articles | H-index = 25 | 1942 citations (Scopus)

Grants: 37 grants for a total of \$6,025,000; 6 active (\$1,873,000);

Supervision: 3 Research Fellows; 8 PhD students; 6 MSc students; and 25 BSc Honors students

Teaching: Hydrology; Geomorphology; Climate; Global Change, Medical Hydrology

Awards: 3 teaching awards and 2 research awards at NUS

Education

1993 - 2000 PhD, Geography, University of Hawai`i at Manoa, Honolulu, Hawai`i, USA

1988 - 1991 MA, Geography, University of Kansas, Lawrence, Kansas, USA

1985 - 1988 BS, Mathematics & Computer Science, University of Kansas, USA

Employment

2013 - pres Professor. Geography, National University Singapore, Singapore

2009 - 2012 Associate Professor. Geography, National University Singapore, Singapore

2010 - pres Affiliated Researcher, NUS Environmental Research Institute, Singapore

2004 - pres Adjunct Assistant Professor. Geography, University of Hawaii, USA

2007 - 2010 Affiliate Researcher. START Southeast Asia Regional Centre, Bangkok, Thailand

2006 JSPS Fellow. Disaster Prevention Research Institute, Kyoto University, Japan

2004 - 2006 Affiliated Research Associate. University of Hawaii, USA (based in Thailand)

2003 - 2004 Research Fellow. Geography. National University Singapore, Singapore

2000 - 2002 Research Associate. Environmental Engineering & Water Resources, Princeton University, USA

1994 Intern. Pakistan Institute for Environment-Development-Action Research, Islamabad, Pakistan

Research Interests

Alan Ziegler's research addresses the interactions of physical and ecological systems, with water resources serving as a common nexus. His work typically involves developing environmental monitoring programs that facilitate understanding catchment processes, as they vary both naturally and anthropogenically over different spatial and temporal scales. I am looking for new graduate students who have interest in various aspects of water resource management, environmental health, natural hazards, and/or hillslope/catchment hydrology. In particular, I am interested in exploring the risks of rural populations in developing areas to ingestion of contaminated drinking water, exposure to anthropogenic contaminants (heavy metals and pesticides), exposure water-borne pathogens (e.g., parasites, bacteria). This type of research requires extended fieldwork in foreign countries, language training, and hands-on work with local populations. The research is a multi-disciplinary balancing act, grounded in science, but with an interest in incorporating elements of human geography.

Recent Awards

FASS Excellent Performance in Research (2012)

NUS FASS Research Excellence award (2012): for work on Demise in Swidden Agriculture in SE Asia

NUS FASS Annual Teaching Award (2010, 2011, 2012)

Research Grants

Lead name is the primary grant author; PIs are indicated; all other personnel are Co-PI; values are US dollars

Grants Pending

Grants Active (6 for \$1,873,000)

1. Webb EL, LR Carrasco, M Rao, AD Ziegler. 2016-2018. Reconciling agricultural expansion and forest conservation in the new Myanmar Ministry of Education (MOE) Academic Research Fund (AcRF, R-109-000-xxx-112; \$400,000): Myanmar.
2. Ziegler, AD (PI, NUS). 2015-2017. Surface and subsurface elemental dynamics in threatened mangroves of SE Asia (FY2014-FRC4-003) Faculty Research Fund (AcRF, R-109-000-xxx-112; \$400,000; \$78,000): Vietnam, Thailand.
3. Ziegler, AD (PI, NUS). 2014-2015. Reconstruction of palaeoflood histories on mainland SE Asian Rivers (R-109-000-174-646). NUS, HSS Strategic budget (\$32,000): Thailand
4. Liong, S-Y (PI), E Clews, DL Higgitt, HTW Tan, DCJ Yeo, AD Ziegler. 2013-2016. Nee Soon Swamp forest biodiversity and hydrology baseline studies – Phase 2 (R347-000-198-490) NParks Singapore (\$487,000): Singapore.
5. Ziegler, AD. D Taylor (PI, NUS). 2013-2016. Developing and maintaining a state-of-the-art Earth Systems Science. NUS Office of the present / FASS, Strategic Initiative (\$448,000): Singapore.
6. Ziegler, AD (PI, NUS). Anthropogenic and Natural Controls on Stream Chemistry at Multiple Scales. 2012-2015. Ministry of Education (MOE) Academic Research Fund (AcRF, R-109-000-134-112), Singapore (\$388,000): Thailand, Singapore.

Grants Ended (32 for \$4,152,000; rounded to nearest \$1000)

1. Ziegler, AD (PI, NUS). 2013-2015. Identification of at-risk rural communities to protozoan diarrheal illnesses in Thailand. Faculty Research Fund (R109-000-157-112) (\$80,000): Thailand.
2. Ziegler, AD (PI, NUS), Sunsanee Rajchagool (Intercountry Centre for Oral Health, ICOH). Origin and consequences of high fluoride concentrations in ground water wells in the Chiang Mai and Lamphun areas of northern Thailand (2012-2014) Monsoon Foundation (\$25,000): Thailand.
3. Hu Jiangyong (PI, NUS), Chew Soon Hoe; Ong Bee Lian; Chui Ting Fong, May; Lim Han She; Alan D. Ziegler; Lee Lai Yoke. 2011-2014. Noble bioretention systems development for sustainable stormwater management. Public Utilities Board (\$269,000): Singapore.
4. Ziegler, AD (PI, NUS), RJ Wasson. 2012-2013. FASS Faculty Research Support Scheme. Singapore Ministry of Education (MOE) Academic Research Fund (AcRF) Tier 1 (c-109-000-222-091) (\$5,000): Singapore.
5. Ziegler, AD (PI, NUS). 2012-2013. ODPRT Grant for Research Excellence (R-109-000-158-646). Faculty of Arts and Social Sciences (\$4,000): Singapore.
6. DL Higgitt (PI, NUS), M Chui (NUS), AD Ziegler (NUS), Lim HS (NUS), R Wasson (Charles Darwin, Australia), G Brierly (U Auckland). 2011-2013. River Rehabilitation: An integrated approach to flood hazard management in Asian cities. NUS Global Asia Institute (\$179,000): Singapore, China, India.
7. Ziegler AD (PI, NUS), PA Todd (PI, NUS), T Bouma (PI, NIOO-CEME), PMJ Herman (NIOO-CEME). 2009-2012. Toward designing innovative coastal protection using ecosystem-based approaches; deriving underlying ecological knowledge. SDWI/Eco-Shape/Building with Nature grant (R-303-001-020-414), Singapore & The Netherlands (\$477,000): Thailand.
8. Fox, JM (PI, E/W Center, Hawaii), TW Giambelluca (Co-PI, UHM), Qi Chen (Co-PI, UHM), AD Ziegler (Co-PI, UHM). The expansion of rubber and its implications for water and carbon dynamics in Montane Mainland Southeast Asia. 2008-2012. NASA project #NNX08AL90G (\$960,000): Laos, Thailand, Cambodia

9. Ziegler, AD. Block grant supporting FASS Geography students to attend The 6th Mathematics and Physical Science Graduate Conference in Kuala Lumpur, Dec 2012. FASS Deans office (\$1,000): Thailand
10. Ziegler AD (PI). 2009-2012. Landslide initiation mechanisms and fate of sediment in a headwater catchment in Thailand. NUS FASS Start-up grant (R-109-000-092-133) (\$20,000): Thailand.
11. Ziegler AD (PI), Lu XiXi (NUS). 2011-2012. FASS Faculty Research Support Scheme. Singapore Ministry of Education (MOE) Academic Research Fund (AcRF) Tier 1 (c-109-000-222-091) (\$5,000): Singapore.
12. Ziegler AD (PI). 2010-2012. Environmental Modeling Reading Group. NUS Office of the Deputy President, Research and Technology, project #R109-000-109-646 (\$3,000): Singapore.
13. Ziegler AD (PI). 2011. FASS Environment Research Facilitation Workshop. Singapore Ministry of Education (MOE) Academic Research Fund (AcRF) Tier 1 (FY2010-FRC3-003; R-109-000-115-112) (\$8,000): Singapore.
14. Ziegler AD (PI, NUS/UHM), RC Sidle (Kyoto), S Wood (BSU), XX Lu (NUS), A Snidvongs. 2009-2010. Sediment Dynamics in Tropical Streams Affected by Land-cover/Land-use & Climatic Change. Asia Pacific Network, grant no #ARCP2008-01CMY (\$40,000): Thailand, Vietnam, China, India.
15. Lu Xi Xi (PI, Singapore), M Bird (Scotland), A Chen (Taiwan), D Higgitt (Singapore), M Kumm (Finland), R Robinson (UK), J Sarkkula (Lao PDR), AD Ziegler (NUS/UHM). 2008-2010. Sediment and carbon fluxes in large Asian rivers: Climate and human impacts. Ministry of Education (MOE) Academic Research Fund (AcRF), Singapore (\$200,000): South and SE Asia.
16. Giambelluca, TW (PI, UHM), RA Sutherland (Co-PI, UHM), ADZ (NUS), K Nanko (Tsukba), Q Chen (UHM). 2007-2008. Hydrological Impacts of *Miconia calvescens* in Hawai'i. US Fish and Wildlife Service. (\$57,000): Hawaii.
17. Lu Xi Xi (PI, Singapore), M Bird (Scotland), A Chen (Taiwan), D Higgitt (Singapore), M Kumm (Finland), R Robinson (UK), J Sarkkula (Lao PDR), AD Ziegler (UHM). 2008-2010. Sediment and carbon fluxes in large Asian rivers: Climate and human impacts. National University of Singapore Bridge Funding, Singapore (\$25,000): Red, Mekong, and Chao Phraya Rivers.
18. Ziegler AD (PI, UHM), RC Sidle (Kyoto), S Wood (BSU), XX Lu (NUS), A Snidvongs. 2007-2008. Sediment Dynamics in Tropical Streams Affected by Land-cover/Land-use & Climatic Change. Asia Pacific Network, grant no #ARCP2007-01CMY (\$40,000): Thailand, Vietnam, China, India.
19. Liem T. Tran (U Tennessee), Dan Phuoc Nguyen (PI, HoChiMihn Tech), AD Ziegler (UHM) 2007-2008. Regional Water & Carbon Cycles in the context of Human-Environment Interaction, Mekong Basin, Vietnam. South Asia Regional Committee for START, award no 95/01/CW-005 (\$30,000) Lower Mekong Delta, Vietnam.
20. Ziegler AD (PI, UHM), Tantasarin C (PI, Thailand), XX Lu (Singapore), DL Higgitt (Singapore), S Benner (Boise State), TW Giambelluca. 2007-2008 Sediment and nutrient dynamics in a headwater tributary in SE Asia: Building a foundation for investigating impacts of future anthropogenic change. South Asia Regional Committee for START, award no. 95/01/CW-005 (\$15,000), northern Thailand.
21. Ziegler AD (PI) (UHM), R.C. Sidle (Kyoto), S. Wood (BSU), X.X. Lu (Singapore), A. Snidvongs (Bangkok). 2006-2007. Sediment Dynamics in Tropical Streams Affected by Land-cover/Land-use & Climatic Change – Thailand Phase. Asia Pacific Network, grant no #ARCP2006-06NMY (\$40,000): Thailand.
22. Fox JM (PI, E-W Center), TW Giambelluca (UHM), B Njissen (U Arizona), S Walsh (UNC), O Sen (Turkey), AD Ziegler (UHM). 2004-2007. Role of land-cover change in montane mainland Southeast Asia in altering regional hydrological processes under a changing climate. NASA (NNG04GH59G) (\$900,000): SE Asia.
23. Ziegler AD (Co-PI, UHM), TW Giambelluca (PI UHM) (UHM), RA Sutherland (Co-PI , UHM). 2000-2003. Hydrological and Erosion Impacts of Road Networks vs. Agricultural Activities in Mountainous Tropical Watersheds. National Science Foundation (EAR-0000546) (\$240,000): northern Thailand.
24. Ziegler AD (UHM), TW Giambelluca (PI) (UHM). 2000-2001. Model Acquisition and Validation of DHSVM: pilot study of the impacts of land-cover change on watershed hydrology. Office of Research Admin, UHM. (\$14,000): O`ahu, Hawai`i.
25. Ziegler AD (UHM). 1997. Determination of soil chemical properties on Kaho`olawe Island. Kaho`olawe Island Reserve Commission (\$1000): Kaho`olawe Island, Hawai`i.
26. Ziegler AD. (UHM), T.W. Giambelluca (UHM). 1997. Investigation of the hydrologic effects of forest fragmentation. Alumni Relations UHM (\$1,000): Vietnam.

27. Ziegler AD (UHM), TW Giambelluca (PI) (UHM), RA Sutherland (UHM). 1997–2000. Hydrologic change and accelerated erosion in mountainous tropical watersheds: the impact of rural roads. National Science Foundation (9614259) (\$300,000): northern Thailand.
28. Fox JM (E-W Center), Rambo TA (PI) (E-W Center), TW Giambelluca (UHM), D Donovan (E-W Center), AD Ziegler (UHM), LT Tran (UHM). 1997–1999. Influence of forest fragmentation on watershed function in northern Vietnam. National Science Foundation/EPA (DEB-9613613) (\$123,000): northern Vietnam.
29. Ziegler AD (UHM), TW Giambelluca (PI) (UHM). 1996. Measuring and modeling erosion on unpaved roads, Oahu, Hawai'i. Office of Research Administration, UHM (\$14,000): O`ahu, Hawai'i.
30. Ziegler AD. 1996. Measuring and modeling erosion on unpaved roads in mountainous tropical watersheds. Horton Hydrology Research Grant from the AGU (\$12,000): Hawai'i and Thailand.
31. Ziegler AD. 1996-1998. Measuring and modeling erosion on unpaved roads in mountainous tropical watersheds. Environmental Protection Agency Star Fellowship (\$88,000): Hawai'i & Thailand.
32. Ziegler AD (UHM), TW Giambelluca (UHM). 1996. Pilot investigation of erosion on unpaved roads in mountainous tropical watersheds. Office of Alumni Relations UHM (\$2,000): Hawaii and Thailand.

PUBLICATIONS

*Indicates a student of ADZ

Research Communications (7 listed on ISI Web of Science and/or Scopus)

1. Sithithaworn, P, AD Ziegler, C, Grundy-Warr, RH Andrews, T Petney. 2012. Alterations to the lifecycle of liverflukes: dams, roads, and ponds. *The Lancet Infectious Disease* 12(8): 588.
2. Sidle, RC, AD Ziegler. 2012. The dilemma of mountain roads. *Nature Geoscience* 5, 437–438
3. Webb, EL, J Phelps*, DA Friess, M Rao, AD Ziegler. 2012. Environment friendly reform in Myanmar. *Science* 336: 295.
4. Ziegler, AD, HS Lim, NR Jachowski*, RJ Wasson. 2012. Reduce urban flood vulnerability. *Nature* 481, 145.
5. Ziegler, AD, RH Andrews, C Grundy-Warr, P Sithithaworn, TN Petney. 2011. Fighting liverflukes with food safety education. *Science* 331: 282-283.
6. Ziegler, AD, PP Wong, C Grundy-Warr. 2009 Still vulnerable to killer tsunamis. *Science* 326: 1188-1189.
7. Ziegler, AD, JM Fox, J Xu. 2009. The rubber juggernaut. *Science* 324: 1024-1025.

Pedagogical Communications (3 listed on ISI Web of Science and/or Scopus)

8. Ziegler, AD, J Gillen. 2015. De-mythologizing faculty-postgraduate writing in geography. *Geoforum* 59: 129-132.
9. Gillen, MJ, DA Friess, RJ Wasson, AD Ziegler. Geography's Role in Nurturing Postgraduate Students in an Era of Interdisciplinarity. 2014. *Geographical Journal*. doi: 10.1111/geoj.12100.
10. Ziegler, AD, J Gillen, B Newell, C Grundy-Warr, RJ. Wasson. 2013. Comprehensive Research in Geography. *Area* DOI: 10.1111/area.12021.

Internationally Refereed Research Articles (102 listed on ISI Web of Science and/or Scopus)

11. Kumagai, T., RG Mudd, TW Giambelluca, N Kobayashi, Y Miyazawa, TK Lim, W Lin, M Huang, JM Fox, AD Ziegler, S Yin, SV Mak, P Kasemsap. 2015. How do rubber (*Hevea brasiliensis*) plantations cope with seasonal drought in northern Thailand and central Cambodia? *Agricultural and Forest Meteorology* 213: 10-22.
12. Ahrends, A., PM Hollingsworth, AD Ziegler, JM Fox, H Chen, Y Su, J Xu. 2015. Current trends of rubber plantation expansion may threaten biodiversity and livelihoods. *Global Environmental Change* 34, 48-58.
13. Bannwarth*, M.A., C Hugenschmidt, M Lamers, I Ingwersen, AD Ziegler, T Streck. Simulation of streamflow components in a mountainous catchment in northern Thailand with SWAT using the ANSELM calibration approach. 2015. *Hydrological Processes* 29 (6), 1340-1352.

14. Gills*, LG, TJ Bouma, AD Ziegler, C Cathalot, PMJ Herman. 2015. Particulate matter in mangrove and seagrass beds as a nitrogen source in tropical coastal ecosystems. *Biotropica* 47 (3), 286-291.
15. Lim, HS, WY Lim*, JY Hu, AD Ziegler, SL Ong. 2015. Comparison of filter media materials for heavy metal removal in biofiltration systems *Journal of Environmental Management* 147: 24-33.
16. Ng, XQS*, SH Wood, AD Ziegler. 2014. Ancient floods, modern hazards: the Ping River, paleofloods and the 'lost city' of Wiang Kum Kam. *Natural Hazards*. 10.1007/s11069-014-1426-7.
17. Ziegler, AD, Sidle, RC, Phang*, VXH, Wood, SH. 2014. Bedload transport in SE Asian streams – uncertainties and implications for reservoir management. *Geomorphology* 227: 31-48.
18. Gillis*, LG, AD Ziegler, D van Oevelen, C Cathalot, PMJ Herman, TJ Bouma. 2014. Tiny Is Mighty: Seagrass Beds Have a Large Role in the Export of Organic Material in the Tropical Coastal Zone. *PLoS ONE* 9(11): e111847. doi:10.1371/journal.pone.0111847.
19. Ziegler, S.G. Benner, C. Tantasirin, S.H. Wood, R.A. Sutherland, R.C. Sidle, N.R.A. Jachowski*, X. Lu, A. Snidvongs, T.W. Giambelluca, J.M. Fox. 2014. Turbidity-based sediment monitoring in northern Thailand: hysteresis, variability, and uncertainty. *Journal of Hydrology*. DOI: 10.1016/j.jhydrol.2014.09.010.
20. Ziegler, AD, RJ Wasson, A Bhardwaj*, YP Sundrial, SP Sati, N Juyal, V Natival, P Srivastava, MJ Gillen, U Saklani. 2014. Pilgrims, progress, and the political economy of disaster preparedness. *Hydrological Processes*. DOI: 10.1002/hyp.10349.
21. Bannwarth*, M.A., W. Sangchan, C. Hugenschmidt, M. Lamers, J. Ingwersen, AD Ziegler, T. Streck. 2014. Pesticide transport simulation in a tropical catchment by SWAT using the novel ANSELM calibration tool. *Environmental Pollution*: 191: 70-79.
22. Fox, J, Castella, J-C, AD Ziegler, SB Westley. 2014. Expansion of rubber mono-cropping and its implications for the resilience of ecosystems in the face of climate change in Montane Mainland Southeast Asia. *Global Environmental Change* 29: 318-326.
23. Fox, JM., JC Castella, AD Ziegler, SB Westley. 2014. Rubber plantations expand in mountainous Southeast Asia: What are the consequences for the environment. *Asia Pacific Issues* 114: 1-8.
24. Gillis*, LG, TJ Bouma, CG Jones, MM van Katwijk, I Nagelkerken, CJL Jeuken, PMJ Herman, AD Ziegler. 2014. Potential for landscape-scale positive interactions among tropical marine ecosystems: A review. *Marine Ecology Progress Series* 503: 289-303.
25. Kobayashi, N., T Kumagai, Y Miyazawa, K Matsumoto, M Tateishi, TK Lim, RG Mudd, AD Ziegler, TW Giambelluca, S Yin. 2014. Transpiration characteristics of a rubber plantation in central Cambodia. *Tree physiology* 34 (3): 285-301.
26. Ziegler, AD, JP Terry, GJH Oliver, DA Friess, TWL Chow, CJ Chuah*, RH Wasson. 2014. Increasing Singapore's Resilience to Drought. *Hydrological Processes* 28: 4543-4548. doi: 10.1002/hyp. 10212.
27. Gillis*, LG, TJ Bouma, W Kswara, AD Ziegler, PMJ Herman. 2014. Leaf transport in mimic mangrove forests and seagrass beds. *Marine Ecology Progress Series* 498: 95-102. DOI:10.3354/meps1061
28. Webb, EL, NRA Jachowski*, DA Friess, J Phelps, Maung Maung Than, AD Ziegler. 2014. Deforestation in the Ayeyarwady Delta and the conservation implications of an internationally-engaged Myanmar. *Global Environmental Change* 24: 321-333.
29. Jachowski N*, SYM Quak*, DA Friess, D Duangnamon, EL Webb, AD Ziegler. 2013. Mangrove biomass estimation in Southwest Thailand using machine learning. *Applied Geography* 45: 311-321.
30. Yuen JQ*, AD Ziegler, R Casey, EL Webb. 2013. Uncertainty in Below-ground Carbon Biomass for Major Land Covers in Southeast Asia. *Forest Ecology and Management* 310: 915-926.
31. Kumagai, T., RG Mudd, Y Miyazawa, W Liu, TW Giambelluca, K Kobayashi, TK Lim, M Jomura, K Matsumoto, M Huang, C Qi, AD Ziegler. 2013. Simulation of canopy CO₂/H₂O fluxes for a rubber (*Hevea brasiliensis*) plantation in central Cambodia: the effect of the regular spacing of planted trees. *Ecological Modelling* 265: 124-135.
32. Fox, FM, JC Castella, AD Ziegler. 2013. Swidden, Rubber and Carbon: Can REDD+ work for people and the environment in Montane Mainland Southeast Asia? *Global Environmental Change* DOI: 10.1016/j.gloenvcha.2013.05.011.
33. Lai, S., LG Gillis*, C Mueller, TJ Bouma, JR Guest, KS Last, AD Ziegler, PA Todd. 2013. First experimental evidence of corals feeding on seagrass matter. *Coral Reefs* 32:1061–1064; DOI:10.1007/s00338-013-1062-9.

34. Ziegler AD, TN Petney, RH Andrews, C Grundy-Warr, IG Baird, RJ Wasson, P Sithithaworn. 2013. Dams and disease triggers on the Mekong River. *PLoS Neglected Tropical Diseases* 7(6):1-4.
35. Velasco, E., KJJ Ho*, AD Ziegler. 2013. Commuter exposure to black carbon, carbon monoxide, and noise in the mass transport *khlong* boats of Bangkok, Thailand. *Transportation Research Part D: Transport and Environment* 21: 62-65.
36. Nanko, K, TW Giambelluca, RA Sutherland, R Mudd, M Nullet, AD Ziegler. 2013. Erosion potential under *Miconia calvescens* stands on the Big Island of Hawai'i. *Land Degradation and Development* DOI: 10.1002/ldr.220.
37. Sen, OL, Bozkurt, D., JB Vogler, JM Fox, TW Giambelluca, AD Ziegler 2013. Hydro-climatic effects of future land-cover/land-use change in montane mainland southeast Asia. *Climatic Change* 118: 213-226.
38. Li, S, XX Lu, M He, Y Zhou, AD Ziegler. 2012. Daily CO₂ partial pressure and CO₂ outgassing in the upper Yangtze River basin: a case study of the Longchuanjiang River, China. *Journal of Hydrology* 466-467: 141-150.
39. Lim HS, K Boochaphun, Ziegler, AD. 2012. Modifiers and Amplifiers of High and low Flows on the Ping River in Northern Thailand (1921-2009): The Roles of Climatic Events and Anthropogenic Activity. *Water Resources Management* 26 (14): 4203-4224.
40. Ziegler AD, J Phelps, JQ Yuen*, D Lawrence, EL Webb, TB Bruun TB, C Ryan, S Leisz, O Mertz, U Pascual, LP Koh, W Dressler, JM Fox, C Padoch. 2012. Carbon outcomes of major land-cover transitions in SE Asia: Great uncertainties and REDD+ policy implications. *Global Change Biology* 18: 3087-3099.
41. Sutherland RA, FMG Tack, AD Ziegler 2012. Road-deposited sediments in an urban environment: A first look at sequentially extracted element loads in grain size fractions. *Journal of Hazardous Materials* 225–226: 54– 62.
42. Lu, XX, S Li, M He, Y Zhou, R Bei, Li Li, AD Ziegler. 2012. Organic carbon fluxes from the upper Yangtze River basin: An example of the Longchuanjiang, China. *Geomorphology* 11: 1604–1616.
43. Van Vliet, N, O Mertz, A Heineman, T. Langanke, U. Pascual, B Schmook, C. Adams, D. Schmidt-Vogt, P. Messerli, S Leisz, J-C, Castella, L Lrogensen, T Brich-Thomsen, C Hett, T Bech-Bruun, A Ickowitz, Kim Chi Vu, K. Yasuyuki, JM Fox, C Padoch, W, Dressler, AD Ziegler. 2012 Trends, drivers and impacts of changes in swidden agriculture on tropical forest frontiers: a global assessment. *Global Environmental Change* 22(2): 418-429
44. Chang T-Y, Y-C Wang, C-C, Feng, AD Ziegler, TW Giambelluca, Liou, Y-A. 2012. Estimation of Root Zone Soil Moisture using Apparent Thermal Inertia with MODIS Imagery over the Tropical Catchment of Northern Thailand. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 99:1-11.
45. Fox, FM, JB Vogler, OL Sen, TW Giambelluca, AD Ziegler. 2012. Simulating land-cover change in Montane Mainland Southeast Asia. *Environmental Management* 49(5): 968-979.
46. Ziegler, AD, HS Lim, C Tantasarin, N Jachowski*, RJ Wasson. 2012. Floods, False Hope, and the Future. *Hydrological Processes* 26: 1748-1750.
47. Yuen*, JQ, P Olin, HS Lim, SG Benner, RA Sutherland, AD Ziegler. 2012. Accumulation of potentially toxic elements in road deposited sediments in residential and light industrial neighborhoods in Singapore. *Journal of Environmental Management* 101: 151-163.
48. Petney, T, P Sithithaworn, R Andrews, N Kiatsopit, S Tesana, C Grundy-Warr, AD Ziegler. 2012. Ecology of the Bithynia first intermediate hosts of *Opisthorchis viverrini*: a critical review. *Parasitology International* 61: 38-45.
49. Grundy-Warr, C., RH Andrews, P Sithithaworn, TN Petney, B Sripa, L Lathavewat, AD Ziegler. 2012. Raw Attitudes, Wetland Cultures, Life-Cycles: Socio-cultural dynamics relating to *Opisthorchis viverrini* in the Mekong Basin. *International Journal of Parasitology* 61: 65-70.
50. Ziegler, AD., RC Sidle, MS Song, JZ Ang, D Duangnamon. 2012. Slope Failures and Erosion on the Ao Jak Beach Road: Toward Reducing Tsunami Vulnerability on Remote Coastlines. *Geological Society, London, Special Publications* 361: 107-114.
51. Lu, XX., S Li, M He, Y Zhou, RT Bei, AD Ziegler. 2011. Seasonal changes of nutrients in the Upper Changjiang basin: An example of the Longchuanjiang River, China. *J. Hydrology* 405: 344-351.

52. Ziegler, AD, JM Fox, EL Webb, C Padoch, S Leisz, RA Cramb, O Mertz, TT Bruun, Tran Duc Vien. 2011. Recognizing Contemporary Roles of Swidden Agriculture in Transforming Landscapes of Southeast Asia. *Conservation Biology* 25: 846-848.
53. Cuo, L, TW Giambelluca, AD Ziegler. 2011. Distributed-Hydrology-Soil-Vegetation Model Parameter Sensitivity Analysis. *Hydrological Processes* 25: 2405-2421.
54. Li S, Lu XX, He Min, Zhou Y, Ziegler AD. 2011. Major element chemistry in the Upper Yangtze River: A case study of the Longchuanjiang River. *Geomorphology*: 129: 29-42.
55. Guardiola-Claramonte, M, PA Troch, AD Ziegler, TW Giambelluca, M Durcik, JB Vogler, MA Nullet. 2010. Modeling basin-scale hydrologic effects of rubber (*Hevea brasiliensis*) in a tropical catchment. *Ecohydrology*. 3(3): 306-314.
56. Sidle RC, AD Ziegler. 2010. Elephant trail runoff and sediment dynamics in northern Thailand. *Journal of Environmental Quality*: 39: 871-881.
57. Rerkasem, K, D Lawrence, C Padoch, D. Schmidt-Vogt, AD Ziegler. 2009. Consequences of swidden transitions for crop and fallow biodiversity. *Human Ecology* 37: 347-360.
58. Ziegler, AD, TB Bruun, M Guardiola-Claramonte, TW Giambelluca, D Lawrence, Nguyen Thanh Lam. 2009. Environmental Consequences of the Demise in Swidden Agriculture in SE Asia: Hydrology and Geomorphology. *Human Ecology* 37: 361-373.
59. Bruun, TB, A De Neergaard, D Lawrence, AD Ziegler. 2009. Environmental Consequences of the Demise in Swidden Agriculture in SE Asia: Soil Nutrients and carbon stocks. *Human Ecology* 37: 375-388.
60. Ziegler, AD, RA Sutherland. 2009. Modeling soil flux by manual tillage as a non-linear slope-dependent process. *Soil Science Society of American Journal* 73 (3): 1012-1019.
61. Ziegler, AD, TW Giambelluca, MA Nullet, RA Sutherland, C Tantasarin, JB Vogler, JN Negishi. 2009. Throughfall in an evergreen-dominated forest stand in northern Thailand: comparison of mobile and stationary methods. *Agriculture and Forest Meteorology* 149: 373-384.
62. Cuo, L, TW Giambelluca, AD Ziegler, MN Nullet. 2008. The roles of roads and agricultural land use in altering hydrological processes in Nam Mae Rim watershed, northern Thailand. *Hydrological Processes* 22: 4339-4354.
63. Wood, SH, AD Ziegler, T Bundarnsin. 2008. Floodplain sedimentation, channel changes and riverbank stratigraphy of the Mekong River area, Chiang Saen, northern Thailand. *Geomorphology* 101: 510-523.
64. Wood, SH, AD Ziegler. 2008. Floodplain sediment from a 100-year-recurrence flood in 2005 of the Ping River in northern Thailand. *Hydrology and Earth Systems Science* 12: 959-973.
65. Guardiola-Claramonte, M, PA Troch, AD Ziegler, TW Giambelluca, JB Vogler, MA Nullet. 2008. Local hydrologic effects of introducing non-native vegetation in a tropical catchment. *Ecohydrology* 1: 13-22.
66. Negishi JN, RC Sidle, AD Ziegler, S Noguchi, Abdul Rahim Nik. 2008. Contribution of intercepted subsurface flow to road runoff and sediment transport in a logging-disturbed tropical catchment. *Earth Surface Processes & Landforms* 33: 1174-1191.
67. Ziegler, AD, JN Negishi, RC Sidle, T Gomi, S Noguchi, Abdul Rahim Nik. 2007. Persistence of road runoff generation in a logged catchment in Peninsular Malaysia. *Earth Surface Process & Landforms* 32: 1947-1970.
68. Sidle, RC, AD Ziegler, JB Vogler. 2007. Contemporary changes in surface area of Inle Lake, Myanmar. *Sustainability Science* DOI 10.1007/s11625-006-0020-7
69. Ziegler, AD, TW Giambelluca, RA Sutherland, MA Nullet, Tran Duc Vien. 2007. Soil translocation by weeding on swidden fields in northern Vietnam. *Soil and Tillage Research* 96: 219-233.
70. Sutherland, RA, AD Ziegler. 2007. Effectiveness of Coir-based Rolled Erosion Control Systems in Reducing Sediment Transport from Hillslopes. *Applied Geography* 27: 150-164.
71. Ziegler, AD, TW Giambelluca, D Plondke, S Leisz, LT Tran, J Fox, MA Nullet, JB Vogler, Dao Minh Truong, Tran Duc Vien. 2007. Hydrological consequences of landscape fragmentation in mountainous northern Vietnam: Buffering of accelerated overland flow. *Journal of Hydrology* 337: 52-67.
72. Negishi JN, S Noguchi, RC Sidle, AD Ziegler, Abdul Rahim Nik. 2007. Storm flow generation including soil pipes in a tropical zero-order basin of Peninsular Malaysia. *Hydrological Processes* 21: 789-806.

73. Ziegler, AD, JN Negishi, RC Sidle, S Noguchi, Abdul Rahim Nik. 2006. Impacts of logging disturbance on saturated hydraulic conductivity in a tropical forest in peninsular Malaysia. *Catena* 67: 89-102.
74. Sutherland, RA, AD Ziegler. 2006. Hillslope runoff and erosion as affected by rolled erosion control systems: A field study. *Hydrological Processes* 20: 2830-2855.
75. Sidle, RC, M Tani, AD Ziegler. 2006. Catchment processes in Southeast Asia: atmospheric, hydrologic, erosion, nutrient cycling, and management effects. *Forest Ecology & Management* 224: 1-4.
76. Cuo, L, TW Giambelluca, AD Ziegler, MA Nullet. 2006. Using Distributed-Hydrology-Soil-Vegetation Model to study road effects on stream flow and soil moisture. *Forest Ecol & Manage* 224: 81-94.
77. Ziegler, AD, LT Tran, TW Giambelluca, RC Sidle, RA Sutherland. 2006. Effective slope lengths for buffering hillslope surface runoff in fragmented landscapes in northern Vietnam. *Forest Ecol & Manage* 224: 104-118.
78. MacNamara, JP, AD Ziegler, SH Wood, JB Vogler. 2006. Channel head locations with respect to geomorphologic thresholds derived from a digital elevation model: a case study in a tropical montane watershed in Northern Thailand. *Forest Ecol & Manage* 224: 147-156.
79. Sidle, RS, AD Ziegler, JN Negishi, N Abdul Rahim, R Siew. 2006. Erosion processes in steep terrain—truths, myths, and uncertainties related to forest management in SE Asia. *Forest Ecol & Manage* 224: 199-225.
80. Ziegler, AD JN Negishi, RC Sidle, P Preechpanya, RA Sutherland, TW Giambelluca, S Jaiaree. 2006. Reduction of stream suspended sediment concentration by a riparian buffer: filtering of road runoff. *Journal of Environmental Quality* 35: 151-162.
81. Ziegler, AD, RA Sutherland. 2006. Effectiveness of a coral surfacing in reducing sediment production on unpaved roads, Schofield Barracks, Oahu, Hawaii. *Environmental Management* 37: 98-110.
82. Ziegler, AD, EP Maurer, J Sheffield, B Nijssen, EF Wood, DP Lettenmaier. 2005. Detection Time for Predicted Warming-Induced Changes in Precipitation, Evaporation, and Streamflow in Three Mississippi River Sub-basins. *Climatic Change* 72: 17–36.
83. Ziegler, AD, TW Giambelluca, RA Sutherland, MA Nullet, S Yarnasarn, J Pinthong, P Preechpanya, S Jaiaree. 2004. Toward Understanding the Cumulative Impacts of Roads in Agricultural Watersheds of Montane Mainland Southeast Asia. *Agriculture Ecosystems and Environment* 104: 145–158.
84. Sheffield, J, AD Ziegler, EF Wood, Y Chen 2004. Correction of the high-latitude rain day anomaly in the NCEP/NCAR reanalysis for land surface hydrological modeling. *Journal of Climate* 17(19): 3814-3828.
85. Sutherland, RA, FMG Tack, AD Ziegler, JO Bussen. 2004. Metal Extraction from Road Sediments Using Nine Partial Decomposition Procedures. *Applied Geochemistry* 19:947-955. doi:10.1016/j.apgeochem.2003.11.002
86. Ziegler, AD, TW Giambelluca, LT Tran, TT Vana, MA Nullet, JM Fox, TD Vien, J Pinthong, JF Maxwell, S Evett. 2004. Hydrological Consequences of Landscape Fragmentation in Mountainous Northern Vietnam: Evidence of Accelerated Overland Flow Generation. *Journal of Hydrology* 287: 124–146.
87. Giambelluca, TW, AD Ziegler, MA Nullet, TM Dao, LT Tran. 2003. Transpiration in a small tropical forest patch. *Agriculture and Forest Meteorology* 117: 1-22.
88. Ziegler, AD, J Sheffield, EP Maurer, B Nijssen, EF Wood, DP Lettenmaier. 2003. Detection of Intensification of Continental-Scale Hydrological Cycles: Temporal Scale of Evaluation. *Journal of Climate* 16(3): 535-547.
89. Ziegler, AD, TW Giambelluca, RA Sutherland. 2002. Improved method for modeling sediment transport on unpaved roads using KINEROS2 and dynamic erodibility. *Hydrological Processes* 16(15): 3079-3089.
90. Ziegler, AD, RA Sutherland, TW Giambelluca. 2001. Acceleration of Horton overland flow & erosion by footpaths in an agricultural watershed in Northern Thailand. *Geomorphology* 41: 249-262.
91. Ziegler, AD, TW Giambelluca, RA Sutherland, TT Vana, MA Nullet. 2001. Horton overland flow contribution to runoff on unpaved mountain roads: A case study in northern Thailand. *Hydrol Process* 15: 3203-3208.
92. Sutherland, RA, JO Bussen, DL Plondke, BM Evans, AD Ziegler. 2001. Hydrophysical degradation associated with hiking trail use: a case study of Hawai'i Ioa Ridge Trail, Oahu, Hawai'i. *Land Degrad & Devel* 12: 71-86.
93. Ziegler, AD, TW Giambelluca, RA Sutherland. 2001. Erosion Prediction on Unpaved Mountain Roads in Northern Thailand: I. Validation of Dynamic Erodibility Modeling using KINEROS2. *Hydrol Process* 15:337-358.

94. Ziegler, AD, RA Sutherland, TW Giambelluca. 2001. Interstorm surface preparation and sediment detachment by vehicle traffic on unpaved mountain roads. *Earth Surface Process & Landforms* 26(3): 235-250.
95. Ziegler, AD, RA Sutherland, TW Giambelluca. 2000. Partitioning total erosion on unpaved roads into splash and hydraulic components: the roles of inter-storm surface preparation and dynamic erodibility. *Water Resources Research* 36 (9): 2787-2791.
96. Ziegler, AD, AA Chun-Smith, JL Perry, JR Egan, SKN. Garcia, TW Giambelluca. 2000. Assessment of the Native Hawaiian Plant Society Restoration Projects on Kaho`olawe, Island, Hawai`i. *Ecological Restoration*. 18: 26-33.
97. Giambelluca, TW, MA Nullet, AD Ziegler, LT Tran. 2000. Latent and sensible heat flux over deforested areas in Amazonia and northern Thailand. *Singapore Journal of Tropical Geography* 21(2): 107-130.
98. Ziegler, AD, SD Warren, JL Perry, TW Giambelluca. 2000. Reassessment of revegetation strategies for Kaho`olawe Island, Hawai`i. *Journal of Range Management* 53(1): 106-112.
99. Ziegler, AD, RA Sutherland, TW Giambelluca. 2000. Runoff generation and sediment transport on unpaved roads, paths, & agricultural land surfaces in northern Thailand. *Earth Surf Process & Landforms* 25: 519-534
100. Ziegler, AD, TW Giambelluca. 1998. The influence of revegetation efforts on hydrologic response and erosion, Kaho`olawe Island, Hawai`i. *Land Degradation and Development* 9: 189-206.
101. Ziegler, AD, RA Sutherland. 1998. The effect of an anionic soil conditioner on water stable aggregation of three Hawaiian soils. *Communications in Soil Science & Plant Analysis* 29: 1253-1264.
102. Ziegler, AD, RA Sutherland. 1998. Reduction in interrill sediment transport by rolled erosion control systems. *Soil and Tillage Research* 45: 265-278.
103. Sutherland, RA, AD Ziegler. 1998. The influence of the soil conditioner 'Agri-SC' on splash detachment and aggregate stability. *Soil and Tillage Research* 45: 373-387.
104. Sutherland, RA, AD Ziegler. 1997. A new approach to determining water stable aggregation. *Communications in Soil Science and Plant Analysis* 28 (19&20): 1871-1887.
105. Ziegler, AD, RA Sutherland, LT Tran. 1997. Influence of rolled erosion control systems on temporal splash response—an interrill laboratory rainfall simulation experiment. *Land Degradation & Develop* 8: 139-157.
106. Ziegler, AD, TW Giambelluca. 1997. Importance of rural roads as source areas for runoff in mountainous areas of northern Thailand. *Journal of Hydrology* 196 (1/4): 204-229.
107. Giambelluca, TW, D Hölscher, TX Bastos, RR Frazão, M Nullet, AD Ziegler. 1997. Observations of albedo and radiation balance over post-forest land surfaces in the eastern Amazon Basin. *J Climate* 19(5): 919-928.
108. Giambelluca, TW, LT Tran, AD Ziegler, TP Menard, M Nullet. 1996. Soil-vegetation-atmosphere processes: Simulation and field measurements for deforested sites in northern Thailand. *Journal of Geophysical Research* 101 (D20): 25,867-25,885.
109. Sutherland, RA, Y Wan, C-T Lee, AD Ziegler. 1996. Aggregate enrichment ratios for splash and wash transported sediment from a highly weathered tropical Oxisol. *Catena* 26: 187-208.
110. Sutherland, RA, Y Wan, AD Ziegler, C-T Lee, SA El-Swaify. 1996. Splash and wash dynamics: an experimental investigation using a highly weathered tropical Oxisol. *Geoderma* 69: 85-103.

Book Chapters

111. Sutherland, RA, DG Pearson, CJ Ottley, AD Ziegler. 2015. Platinum-Group Elements in Urban Fluvial Bed Sediments--Hawaii. In F. Zereini and C.L.S. Wiseman (eds.), *Platinum Metals in the Environment*, Springer-Verlag: Berlin, Heidelberg. DOI 10.1007/978-3-662-44559-4_12).
112. Fox, J., Rambo, T., Donovan, D., Le Trong Cuc, Giambelluca, T., Ziegler, A., Plondke, D., Tran Duc Vien, Leisz, S., and Dao Minh Truong (2003). Linking Household and Remotely Sensed Data for Understanding Forest Fragmentation in Northern Vietnam. In: *People and the Environment: Approaches for Linking Household and Community Surveys to Remote Sensing and GIS*, (J. Fox, R.R. Rindfuss, S.J. Walsh, V. Mishra, eds.), Kluwer: Norwell, MA.

IAHS Rebook papers

113. Ziegler, A.D., Lu XX., C Tantasarin. 2011. Sediment load monitoring in the Mae Sa catchment in northern Thailand. *IAHS Publication* 349: 86-91.
114. Ziegler, A.D., T.W. Giambelluca. 2003. First-order analysis of overland flow buffering in an ungauged fragmented upland basin. *IAHS Publication* 279: 216-223.
115. Ziegler, A.D., J. Sheffield, E.F. Wood, E.P. Maurer, B. Nijssen, D.P. Lettenmaier. 2002. *IAHS Publication* 274: 51-57.
116. Ziegler, A.D. and T.W. Giambelluca. 1997. Simulation of runoff and erosion on mountainous roads in northern Thailand: a first look. *IAHS Publication* 245: 21-29.

Various reputable letters, notes, reports

117. Nakao, P., J.L. Perry, A.A. Chun-Smith, T.W. Giambelluca, and A.D. Ziegler. 1997. Status of *Erythrina sandwicensis* in the NifTAL experiment site, Kaho'olawe, Hawai'i: A reassessment. *Newsletter of the Hawaiian Bot. Soc.* 36(3/4): 57-63.
118. Ziegler AD. 2010. Tillage erosion in developing countries in Asia. Vignettes: Key Concepts in Geomorphology. <http://serc.carleton.edu/vignettes/collection/42228.html>
119. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland. 2002. Estimation of basin sediment flux in the Pang Khum Experimental Watershed in northern Thailand: the contributions of roads and agricultural lands. Case study 28. *Land-Water Linkages in Rural Watersheds*. 18 Sept - 28 Oct 2000. Land & Water Development Division, FAO.

Papers Forthcoming

- Wolters, JW, LG Gillis, TJB Bouma, MM Van Katwijk, AD Ziegler. 2015. Land use effects on mangrove nutrient status: a case study in Phang Nga Bay, Southern Thailand. *Land Degradation and Development*.
- Wood, SH., L Wood, AD Ziegler. Natural degradation of earthworks, trenches, walls, and moats, northern Thailand. (*Journal of Field Archaeology*).

Papers in revision

- Bramante, JF, M Ali Suryati, AD Ziegler, TM Sin. Mapping Seagrass Cover Using a Novel Canopy Index. Submitted to *International Journal of Remote Sensing*.
- Yuen, JQ, T Fung, AD Ziegler Review of allometric equations for major land covers in SE Asia: Uncertainty and implications for above- and below-ground carbon estimates. *Forest Ecology and Management*.
- Gillis, LG., CG Jones, D van der Wal, AD Ziegler, TJ Bouma. Mind the gap: managing cross-ecosystem fluxes as key for preserving and restoring tropical coastal seascape. *Conservation Biology*.
- Benner, SG, AD Ziegler, C Tantasarin, MX Kunkel. Suspended sediment and carbon-nitrogen flux dynamics in a headwater catchment in Northern Thailand. (*Hydrological Processes*).

Papers in review

- Giambelluca, TW, RG Mudd, W Liu, AD Ziegler, N Kobayashi, T Kumagai, Y Miyazawa, YK Lim, M Huang, JM Fox, S Yin, P Kasemsap. Evapotranspiration of rubber (*Hevea brasiliensis*) cultivated at two sites in southeast Asia (Target: *Agricultural and Forest Meteorology*).
- Chuah JC, HR Lye, AD Ziegler, Chatphat Kongpun, SH Wood, M Potapohn; S Rajchagool. The Chiang Mai Basin Fluoride Hotspot: Hydrological Controls and Environmental Risk. (*Environment International*).
- AD Ziegler, YT Lee, P Echaubard, CJ Chuah, C Grundy-Warr, BA Wilcox, L Laithevewat, P Sithithaworn, B Sripa, TN Petney, X Ong, RH Andrews, N. Khuntikeo, P Tungtang. A Transdisciplinary Learning Approach to Understanding the Complexity of Liver Fluke Infection in NE Thailand. *Ecohealth*.
- Lee, YT, C Grundy-Warr, L Laithevewat, W Wannasook, N Khuntikeo, P Sithithaworn, RH Andrews. Misunderstanding, Misrepresentation and Miscommunication: The Double-Edged Sword of Thailand's Liver Fluke Education Healthcare System. *Trans Roy Soc Trop Med & Hyg*.

In the pipe line

- Wasson, RJ, AD Ziegler. Large floods and the dubious promise of reforestation: An Austral-Asia perspective. (target: *Ambio*).

- Liu, SD., XX Lu, AD Ziegler. River networks as hotspot of global terrestrial heterotrophic respiration. (Target: *Hydrological Processes*).
- Lim HS, Richards, K, AD Ziegler, K Kuraji. Comparing the hydrological behaviour of a pair of adjacent forested catchments in Northern Thailand (target: *Hydrological Processes*).
- Ang JZ, P Olin. SB Benner, SH Wood, C Tantasirin, AD Ziegler. Sediment source identification in the Mae Sa catchment, northern Thailand: uncertainties and management considerations (target: *Geomorphology*).
- Wijedasa, L., AD Ziegler. Carbon biomass in peat forests of Indonesia. (target: *Global Change Biology*)
- Quak, SYM, AD Ziegler. Tracing sources and distribution of seagrass sediments, Yao Yai island, Thailand.
- Ziegler, A.D. Swidden Adaptations of the Lisu of Pang Khum: a retrospective. Target: Environmental History.
- Rouwenhorst, J, AD Ziegler, RJ Wasson, A Amaral, DM Alongi, F Tirendi, and A McWilliam. Timor-Leste: Forest Rehabilitation, Tara Bandu, and REDD+ (Target: Landscape Ecology).

RESEARCH PERFORMANCE INDICATORS

The following statistics are based on the analysis tools on 111 cited papers currently listed on Scopus (includes only refereed articles). Of note are the H-index of 25; three papers cited more than 100 times; 1428 citations (without self-citations), a rate of 8 publications over the period 2013-2015; and six *Nature/Science* short communications.

1906	Sum of times cited
1428	Sum of times cited without self-citations (all authors)
345	Most citations in one year (2014)
161	Most cited paper (Sidle et al., 2006, Agriculture Ecosystems & Ecology)
111	International refereed publications cited
111	Second most cited paper (Ziegler & Giambelluca, 1997, J. Hydrology)
59	Number of papers since joining NUS in 2009 (10 per year; based on 6.5 years)
26	Publications in last 3 years (2013-2015):
25	H-index (25th most cited paper was cited 20 times)
18	Most papers published in one year (2012)
17	Average citations per article (1906/111)
10	Publication rate since joining NUS in 2009 (per year)
6	Average number of papers per year since 1996 (111/19)
4	Number of contributions to <i>Science</i>
2	Number of contributions to <i>Nature group</i>

References

Robert J. Wasson. Professor. Geography Department. National University Singapore. 1 Arts Link Kent Ridge, 117570 Singapore. Email: georjw@nus.edu.sg

L.A. Sampurno Bruijnzeel. Professor of Land Use and Hydrology. VU room: WN-E229. VU University Amsterdam Faculty of Earth and Life Sciences, De Boelelaan 1085, 1081 HV Amsterdam, The Netherlands. Telephone: +31 (0)20 598 7294. Email: <mailto:l.a.bruijnzeel@vu.nl>

Roy C. Sidle. Professor and Associate Director, Sustainability Research Centre/Faculty of Arts and Business Ph: +61 7 5456 3401 | Fax: +61 7 5456 5008 | Email: rsidle@usc.edu.au | Web: www.usc.edu.au

Spencer H. Wood. Emeritus Professor. Geology and Geophysics, Geosciences Dept., Boise State University, 1910 University Drive, Boise, Idaho 83725 USA. Tel: +1 208-426-3629; Fax +1 208-426-4061. Email: swood@boisestate.edu

Eric F. Wood. Professor. Environmental Engineering & Water Resources Program, Princeton University, Princeton, NJ 08544 (USA). Tel: +1 609 258 4675; Fax +1 609 258 2799. Email: efwood@runoff.princeton.edu

Steven J. Burges. Professor. Depart. of Civil & Environmental Engineering, 160 Wilcox Hall, Box 352700, University of Washington, Seattle, WA 98195-2700 (USA). Tel: +1 206 543 7135; Fax +1 206 685 3036. email: sburges@u.washington.edu

Thomas W. Giambelluca. Professor. Geography Department, 2424 Maile Way #412 Social Science Bldg, University of Hawai`i, Honolulu HI 96822 (USA). Tel: +1 808 956 7683; Fax +1 808 956 3512; email: thomas@hawaii.edu

Ross A. Sutherland. Professor. Geomorphology Lab, Geography Department, 2424 Maile Way #422 Social Science Bldg, University of Hawai`i, Honolulu HI 96822 (USA). Tel: +1 808 956 3524; Fax +1 808 956 3512; email: sutherla@hawaii.edu

STUDENT SUPERVISION

Graduate students under supervision (*joint supervision)

1. **Chuah Choon Joon**. 2011-pres. PhD: Evolution of water contaminants & pathogens in SE Asia streams.
2. **Anne Lau***. 2014-pres. PhD: Reconstructing catastrophic tsunami and storm surge events from boulder (re)orientation on three Pacific Ocean islands. Formally supervised with James Terry.
3. **Nickolas RA Jachowski**. 2010-pres. PhD: Artificial intelligence methods for modeling geographical distribution of mangroves, seagrass, and coral ecosystems in SE Asia.
4. **Alok Bhardwaj**. 2013-pres. PhD: Extreme rainfall and landslide occurrence in the Uttarakhand.
5. **Tien Trinh Nguyen Canh**. 2014-present. PhD: Heavy metal distribution in Nee Soon Swamp
6. **Pierre Taillardat***. 2014-pres. PhD: Mangrove nutrient cycling in Vietnam. Co-supervised with Dan Friess.
7. **Khairun Nisha Bte Mohamed Ramdzan**. 2014-pres. MSS: Particle size distribution of flood sequences on the Ping River, northern Thailand.
8. **Elisha Teo**. 2014-pres. PhD: Reconstruction of Ping River flood history.
9. **Marie Delalay**. 2015-pres. PhD. Floods and the Flood Industry

MSS/MSc Students Supervised

1. **Yuen Jiaqi**. 2012-2015. MSS: Uncertainty in above and belowground carbon biomass in major land covers in Southeast Asia.
2. **Ng Xiao Qian Serene**. 2013-2015. MSS: Social Memories of Floods: The Making of Hazardscapes in Ayutthaya.
3. **Rutger Hofste**. 2013-2014. MSc. Comparative analysis among near-operational evapotranspiration products for the basin based on earth observations. Double Master of Science in Hydraulic Engineering and Water Resources Management at the Delft University of Technology and the National University of Singapore (Co-supervised with Wim Bastiaanssen, Delft University of Technology).
4. **James Bramonte**. 2012-2104. MSS: Quantifying recent trends in seagrass cover and biomass in a stressed environment, Pulau Semakau, Singapore.
5. **Mohammad Shamraz Anver**. 2011-2104. MSS. Accuracy of filling streamflow gaps using artificial intelligence.
6. **Quak Song Yun Michelle**. 2011-2014. MSS: Provenance of seagrass sediments on Yao Yai Island, Pang Nga, Thailand.

PhD Students Supervised

1. **Lucy G Gillis**. 2010-2014. PhD: Facilitation beyond diversity: self facilitation of mangrove-seagrass-coral ecosystems; enrolled at NIOZ (The Netherlands).

BSS Honors students supervised

1. **Angus Sham**. 2010. ISM Thesis: The influence of land-cover changes on saturated hydraulic conductivity in three forest land-covers in northern Thailand.
2. **Alvin Yeo**. 2010. ISM Thesis: Variation in soil physical characteristics in three forest soils in Mae Sa Catchment, Thailand.
3. **Quak Song Yun Michelle**. 2011. Honors Thesis: Above-ground biomass of a *Rhizophora*-dominated mangrove ecosystem, Ranong, Thailand.
4. **Yuen Jiaqi**. 2011. Honors Thesis: Unfriendly roads: the effect of land use on heavy metal accumulation in road-deposited sediments in Singapore.
5. **Norman B Md Shah**. 2011. Honors Thesis: Impacts of shrimp farming in southern Thailand: a study in water quality management.
6. **Song Si Hui Mandy**. 2012. Honors Thesis: Biophysical impacts of elephant trampling in Thailand.
7. **Ng Xiao Qian Serene**. 2012. Honors Thesis: Flooding effects on location of Wat Wiang Khum Kam, Chiang Mai, Thailand. Won FASS Outstanding Undergraduate Researcher (OUR) Prize for 2011/2012.
8. **Ang Zuo Jin**. 2012. Honors Thesis: Sediment Fingerprinting in Mae Sa Catchment, Chiang Mai, Thailand.
9. **Kelvin Ho**. 2013. Honors Thesis: Role of grain size and organic matter in affecting sediment-turbidity hysteresis patterns in a Thai river.
10. **Kitson Tan**. 2013. Honors Thesis: Stream chemistry and hydrograph separation in Mae Sa River, Thailand.

11. **Lye Han Rui.** 2014. Honors Thesis: The F word: groundwater fluoride contamination in Chiang Mai, northern Thailand.
12. **Chiam Gui Ping.** 2014. Honors Thesis: Geologic controls of drainage systems and channel morphology in Doi Suthep metamorphic core complex, northern Thailand.
13. **Soh Jia Yun Candice.** 2014. Honors Thesis: Rainfall partitioning in a montane bamboo-dominated stand, northern Thailand.
14. **Tan Jin Hui Aricia.** 2014. Honors Thesis: Limitations to using neodymium, strontium, and lead isotopes for sediment tracing in small catchments: a case study of Mae Sa Catchment, northern Thailand.
15. **Anna Yeo.** 2014. Honors Thesis: Biogeochemistry of aluminum in the acidified streams of Bukit Timah Nature Reserve Singapore
16. **Rachel Yan Ting Koh.** 2014. A sedimentary record of land use change and heavy metal deposition in Nee Soon Swamp Forest, Singapore.
17. **Lim Wan Lin.** 2015. Honors Thesis: Heavy metals in household dust in Singapore
18. **Lim Jia Ai Dawn.** 2015. Honors Thesis: Macro-invertebrates as indicators of river health in Thailand
19. **Ester Kee Hwee Tan.** 2015. Honors Thesis: Hydrological controls on the presence of *Burkholderia psuedomallae* in northeast Thailand—implications for Melioidosis.
20. **Nabila Bte Mukhaidin.** 2015. Honors Thesis: Parasites in dairy versus free-ranging cattle in northern Thailand
21. **Teo Wei Tian Charelene.** 2016. Distribution of heavy metals in the soils of Central Catchment Singapore.
22. **Loh Zhi Yang.** 2016. Heavy metals in residential dust in Singapore.
23. **Kho Yee Theng Rachel.** 2016. Saturated hydraulic conductivity in various land covers of Central Catchment Singapore.
24. **Muhammad Herzad B Mohd Rahman.** 2016. Carbon Stock estimates in Central Catchment Singapore.
25. **Ong Miao Xiang.** 2016. Heavy metals in swamp sediment profiles in Nee Soon Swamp Forest, Central Catchment Singapore.

Internal Examiner

- **Wang Jianjun.** June 2010. National University of Singapore. Satellite remote sensing of suspended sediment concentrations in turbid rivers.

NUS Thesis Committee

- **Ran Lishan.** 2013 projected. National University of Singapore.

External Examiner

- **Sarah Hobgen.** May 2015. PhD. Thesis. Understanding sediment sources to inform management in data poor regions: An example from Sumba, eastern Indonesia. Charles Darwin University.
- **Sibylle Kathrin Hassler.** April 2013. PhD Thesis: Saturated Hydraulic Conductivity in the humid tropics: Sources of variability, implications for monitoring, and effects on near-surface hydrological flow paths. University of Potsdam, Faculty of Mathematics and Natural Sciences.
- **Wang Yi. Aug 2012.** Depart of Biological Sciences, National University of Singapore. MS Thesis: Changes of land use, associated livelihood, plant biodiversity in traditional tea agroforestry in Yunnan China.
- **Sunita Ragni Lata.** Jan 2010. MA thesis: Impacts of different land use activities on water quality in the Lower Signatoka River Catchment, Viti Levu, Fiji. University of South Pacific.
- **Andrew Wilson.** 2010. MPhil. Australian National University. Thesis: Hydrological effectiveness and rural community perception of upland afforestation in Yunnan Province, southwest China. Dissertation Committee Outside Member.
- **David Burwell.** March 5, 2001. Department of Marine Science, University of South Florida. Dissertation: Modeling Spatial Variation in Estuary Residence Times: Eulerian vs. Lagrangian Approaches. Dissertation Committee Outside Member.

TEACHING

Awards

2010: FASS Faculty teaching award

2011: FASS Faculty teaching award

2012: FASS Faculty teaching award

Teaching Philosophy: Student learning is unique. Ability not only reflects intelligence, it is affected by academic preparation, cultural influences, and current life situations. Teaching and assessment strategies must be diverse to reach as many students as possible. Reaching troubled students often involves understanding why they are struggling and building from that reference point. Learning should be enjoyable and rewarding. I encourage creativity and the questioning of accepted dogma—including my own. I allow inquiry to drive discussion; and I allow student interest to influence class direction. Thus, learning is dynamic and two-way.

My role as a teacher is not different from that of a coach: the end goal is making all students perform to the best of their abilities, not simply making the stars shine brighter. This is challenging at elite universities like NUS where the best students tend to be rewarded over and over again while many of the rest become discouraged. I relish finding the sleepers who will one day exceed expectations. I also encourage class interaction by breaking into groups where strong students work alongside struggling ones. In this sense, the teaching and learning become an interactive process—one in which students learn the value of selflessness and leading by example.

Instruction @ National University of Singapore

code	credits	year	student numbers	teaching award noms	total responses	percentage nominating	overall effectiveness
GE1101E	4	2013	115	0	74	0%	3.73
GEK1101	4	2013	194	1	135	1%	3.55
GE1101E	4	2014	113	0	71	0%	3.94
GEK1101	4	2014	69	1	47	2%	3.81
GE3230A	8	2009	44	18	33	55%	4.57
GE3230A	8	2010	44	9	30	30%	4.57
GE3230A	8	2011	44	8	30	27%	4.40
GE3230A	8	2012	42	11	30	37%	4.63
GE3230A	8	2013	47	11	35	31%	4.89
GE3230A	8	2014	49	12	28	43%	4.61
GE3230A	8	2015	45	13	38	34%	4.64
GE3240	5	2012	55	0	34	0%	4.00
GE3240	5	2013	74	2	53	4%	3.91
GE3240	5	2014	81	3	48	6%	4.02
GE4211	5	2009	37	2	19	11%	N/A
GE4211	5	2010	40	7	23	30%	4.26
GE4880	5	2011	32	11	22	50%	4.48
GE5211	4	2010	6	1	3	33%	5.00
GE5211	4	2011	7	1	6	17%	4.67
GE5211	4	2012	5	0	6	0%	4.50

GE1101 & GEK1101: PLACE, ENVIRONMENT AND SOCIETY (Introduction to Geography for majors and non-majors).

GE3230A: Field studies is a split human/physical course for which I only interact extensively with half of the students.

GE3240: Geographical research: developing ideas (Honors thesis prep course for human and physical geographers);

GE4211: Catchment processes and management

GE4880: Topics in geomorphology

GE5211: Dynamic environments

GE6770: Graduate Research Seminar, writing lecture, (2011, 2012, 2013)

University of Hawaii

- Physical geography laboratory: F 1993; SP 1994; F 1994; SP 1995; F 1995
- Agricultural climatology teaching assistant: SP 1996;
- Climate lab assistant: F 1996.

University of Kansas, Computer Science Department

- Introduction to computing: Fall 1988 (2x); SP 1989 (2x)
- Pascal programming: F 1989 (2x); SP 1990 (2x); F 1991 (2x); SP 1991 (3x)

Teaching interests: (1) watershed hydrology / water resources; (2) process geomorphology; (3) measuring/modeling earth surface processes; (4) microclimatology; (5) environmental change / land degradation; (6) field instrumentation for environmental research; and (7) statistics and spatial analysis techniques for experimental research; (8) natural hazards; (9) physical geography of SE Asia.

Workshops/symposia taught:

- * Instructor: MOE training classed for National Geography Talent Development Programme (TDP): Landform, Landuse, and Resources lecture (2014).
- * Instructor: MOE training classed for National Geography Talent Development Programme (TDP): Landform, Landuse, and Resources lecture (2013).
- * Instructor: MOE training classed for National Geography Talent Development Programme (TDP): Landform, Landuse, and Resources lecture (2012). The Singapore team placed first in the 9th International Geography Olympiad (iGeo) held in Cologne, Germany, from 21- 26 Aug 2012; the team was also champions of iGeo2012.
- * Instructor: graduate writing workshop @ Utown (July, 2012; 7 pax)
- * Instructor: Field course on measuring stream discharge, suspended sediment, and bedload. Faculty of Forestry, Kasetsart University (Oct 2004)
- * Assistant Field Instructor. Soil survey and classification. Chiang Mai University (2002-2003)
- * Instructor: Workshop on climate station installation, operation, and maintenance, Department of Land Development, Chiang Mai Thailand (June, 2000).
- * Instructor: Workshop on rainfall simulation techniques to investigate runoff generation, sediment transport, and pesticide mobilization, Department of Land Development and Highland Development Project Thailand (Jan-Feb, 2002).

Educational Leadership

Designed, GE4222, Earth Surface Processes and Landforms

Help design joint DBS/geography minor in aquatic ecology (2012)

SERVICE

(a) University Service

NUS Faculty of Arts and Social Science, Faculty Research Award (FRA) Committee (2014-present)
NUS Faculty of Arts and Social Science, Faculty Research Committee (2011-present)
NUS Faculty of Arts and Social Science, Environmental Cluster Steering Committee Head (2012-present)
NUS Faculty of Arts and Social Science, Environmental Cluster Steering Committee (2010-present)

(b) Department Service

NUS Geography Department, Undergraduate Research Committee (2013-present)
NUS Geography Department, Research Committee, deputy chair (2013-present)
NUS Geography Department, Honors Coordinator & Level 4000 module coordinator (2011-present)
NUS Geography Department, Tropical Environmental Cluster Deputy Chair (2012 – present)
NUS Geography Department, Tropical Environmental Cluster Chair (2010 - 2012)
NUS Geography Department, Ethics and Standards Sub-Committee (ESSC) (2010 - 2012)
Singapore Journal of Tropical Geography, Advisory Board (2010 - present)
NUS Geography Department, Geolab Supervisor (2009 – present)
NUS Geography Department, Seminar Committee (2009 - present)

(c) Conference/workshop Service (since 2009)

Organizer: Future Floods. An Exploration of Cross-Disciplinary Approaches to Flood Risk Forecasting. Cosponsored by NUS FASS Environment Cluster & Institute of Water Policy, Lee Kuan Yew School of Public Policy & Aon Asia Pte Ltd. 26-27 February 2015.

Organizer: NUS FASS Environment Cluster International Workshop. Holocene Climate Reconstructions and Understanding Flood Histories. 27-28 January 2014. NUS, Singapore

Session Chair. Emplacing Climate Change: Reconstructions of Changing Environmental Realities, Science Technology and Society Cluster Workshop. FASS National University of Singapore, 6 Nov 2013.

Panel Chair: Research Questions. FLOOD RISK IN MONSOON ASIA: HAZARD AND VULNERABILITY IN THE PAST AND FUTURE. A Planning Workshop 24 - 25 Sep 2013, Asia Research Institute, Singapore.

Session Chair: Annual Conference for the Consortium of African and Asian Studies (28-30 Jan 2013; Singapore)

Organizer: NUS FASS Environment Cluster Workshop IV – “Global Change Issues in the Asian Region” (23-25 Jan 2013).

FASS representative: LSHTM & NUS joint-hosted International Workshop on “Use of systems dynamics in policy making” (21-25 Jan 2012; Singapore)

Organizer: NUS FASS Environment Cluster supported LUCIFS-ASIA. Workshop and Planning meeting for Landuse and Climate Impacts on Fluvial Systems in Asia (10-11 Nov 2012)

Organizer: NUS FASS Environment Cluster Workshop III. 5-10 Feb 2012.

Organizer: NUS FASS Environment Cluster Workshop II. 25-29 April 2011.

Facilitator: NUS FASS Joint Health and Environment Cluster Seminar, ‘Life-Cycle, Livelihoods and Parasites: Human, Environment, and Health Dynamics of *Opisthorchis viverrini* in the Mekong Region”, 10-12 March 2011.

Facilitator: NUS FASS Environment Cluster Research Seminar “Water and sediment discharge changes across the Chao Phraya River basin”, 13-15 March 2011.

Organizer: NUS FASS Environment Cluster Research Facilitation Workshop I. 25-29 January 2011.

Promoter: 8th Mathematics and Physical Science Graduate Congress, December 2012, Bangkok, Thailand.

Promoter: 7th Mathematics and Physical Science Graduate Congress, December 2011, Singapore.

Promoter: 6th Mathematics and Physical Science Graduate Congress, December 2010, Kuala Lumpur, Malaysia.

Session chair: Panel 16 (Environment). The 4th Asian graduate forum on SE Asian Studies. Organized by Asia Research Institute, NUS. Singapore, 15-17 July 2009

Session chair: BIOFUELS: The impact of Oil Palms on Forest and Climate. 12-13 May 2009. Singapore, sponsored by Environmental Leadership and Training Initiative (ELTI) and NUS Department of Biological Sciences.

(d) Editorial Service

- Editorial Board: *Singapore Journal of Tropical Geography* (2010 – pres)

- Editor (with RC Sidle and M Tani) of special issue on Catchment Processes in SE Asia. *Forest Ecology and Management*, Volume 224, Issues 1-2.

(e) Journal Reviewing

I review roughly one journal article a month: *Nature*, *Forest Ecology and Management*, *Catena*, *Water Research*, *Natural Hazards*, *Global Environmental Change*, *Biogeochemistry*, *Hydrological Processes*, *Earth Surface Processes*, *Journal of Hydrology*, *Journal of Hydrometeorology*, *Journal of Environmental Management*, *Journal of Transport Geography*, *Agriculture, Ecosystems, and Environment*, *Environmental Reviews*, *Environmental Management*, *Singapore Journal of Tropical Geography*, *Global and Planetary Change*, *Journal of Agriculture, Science and Technology*, *European Journal of Soil Science*, *Geoderma*, *Quaternary International*, *Biotropica*, *Landscape and Urban Planning*, *Journal of Hazardous Materials*, *Biomass and Biofuels*, *Transactions of the American Society of Agricultural and Biological Engineers*, *Journal of Geophysical Research*, *Biogeosciences*, *Conservation Letters*.

(f) External grant reviewing

I have reviewed grants for the following agencies: National Science Foundation (USA), National Sciences and Engineering Research Council of Canada, National Geographical Society.

Other Honors & support (not listed above)

Awards

Horton Hydrology Research Award, American Geophysical Union, Hydrology Section (1995)
 Most distinguished technical paper award (co-author), IECA 27th Annual Conference (Feb, 1996)
 Wein's Award, Department of Geography, University of Hawai'i (May 2000)
 Order of Omega Honor Society, Charter Member, University of Kansas (1991)
 Berelli Award of Excellence, National Chapter, Delta Chi (1990)

Fellowship support

NSF Fellowship support: Hydrological/Geomorphological Road Impacts in Thailand (spring 1998 - spring 2000)
 NSF Fellowship support: Vietnam Forest Fragmentation project (1997-1998)
 Environmental Protection Agency STAR Fellowship (fall 1995 - summer 1998)

Scholarships & Assistantships

Japan Society for the Promotion of Sciences (JSPS) Fellowship, Kyoto University (spring 2006)
 International Agreements Fund Exchange Scholarship, study at Chiang Mai University (fall 1996- fall 1998)
 National Research Council (USA) Travel Scholarship, 28th IGU Conf., The Hague, The Netherlands (Aug., 1996)
 International Erosion Control Association travel scholarship, IECA Conference, Seattle WA (Feb, 1996)
 Arts and Sciences Advisory Council Award to conduct research in SE Asia (summer, 1995, 1997)
 American Meteorology Society Travel Scholarship, Global Climate Conference, Dallas, TX (Jan, 1995)
 NOAA Scholarship, Colloquium on Environmental Prediction, Camp Springs, MD (summer, 1994)
 Graduate Teaching Assistantship, Geography Department, University of Hawai'i (Aug, 1993 - Aug, 1995)
 Graduate Teaching Assistantship, Computer Science, University of Kansas (Aug, 1988 - May, 1991)

Refereed Journals	n times	ISI Journal Impact Factor
1. <i>Nature</i>	1	42.35
2. <i>Science</i>	4	31.48
3. <i>The Lancet Infectious Disease</i>	1	19.45
4. <i>Nature Geoscience</i>	1	11.67
5. <i>Global Change Biology</i>	1	8.04
6. <i>Global Environmental Change</i>	5	5.09
7. <i>PLoS Neglected Tropical Diseases</i>	1	4.69
8. <i>Conservation Biology</i>	1	4.69
9. <i>Journal of Hazardous Materials</i>	1	4.33
10. <i>Climatic Change</i>	2	4.31
11. <i>Coral Reefs</i>	1	3.88
12. <i>Environmental Pollution</i>	1	3.73
13. <i>Journal of Climate</i>	3	3.55
14. <i>PLoS One</i>	1	3.53
15. <i>Journal of Environmental Management</i>	2	3.43
16. <i>International Journal of Parasitology</i>	1	3.39
17. <i>Agriculture and Forest Meteorology</i>	3	3.39
18. <i>Journal of the Geological Society of London</i>	1	3.30
19. <i>Journal of Geophysical Research - Atmospheres</i>	1	3.30
20. <i>Journal of Environmental Quality</i>	2	3.25
21. <i>Hydrology and Earth System Science</i>	1	3.15
22. <i>Applied Geography</i>	2	3.08
23. <i>Agriculture, Ecosystem, & Environment</i>	1	3.00
24. <i>Water Resources Research</i>	1	2.96
25. <i>Geomorphology</i>	5	2.88
26. <i>Tree Physiology</i>	1	2.86
27. <i>Journal of Hydrology</i>	6	2.66
28. <i>Marine Ecology Progress Series</i>	2	2.55
29. <i>Forest Ecology and Management</i>	5	2.49
30. <i>Hydrological Processes</i>	11	2.49
31. <i>Earth Surface Processes Landforms</i>	4	2.43
32. <i>Soil and Tillage Research</i>	3	2.43
33. <i>Geoderma</i>	1	2.32
34. <i>Soil Science Society of America Journal</i>	1	2.18
35. <i>Parasitology International</i>	1	2.13
36. <i>Ecohydrology</i>	2	2.13
37. <i>Applied Geochemistry</i>	1	2.18
38. <i>Biotropica</i>	1	20.8
39. <i>Ecological Modelling</i>	1	2.07
40. <i>Water Resource Management</i>	1	2.05
41. <i>Natural Hazards</i>	1	1.96
42. <i>Geographical Journal</i>	1	1.93
43. <i>Catena</i>	2	1.89
44. <i>Human Ecology</i>	3	1.63
45. <i>Environmental Management</i>	2	1.50
46. <i>Journal of Range Management</i>	1	1.46
47. <i>Geoforum</i>	1	1.40
48. <i>Area</i>	1	1.38
49. <i>Land Degradation & Development</i>	4	1.33
50. <i>Transportation Research Part D: Trans & Environ</i>	1	1.29
51. <i>IEEE Journal of STAEO&RS</i>	1	1.14
52. <i>Sustainability Science</i>	1	0.89
53. <i>Singapore Journal of Tropical Geography</i>	1	0.87
54. <i>Communications in Soil Science & Plant Analysis</i>	2	0.43
55. <i>Ecological Restoration</i>	1	0.43

109 (> 4 per year)

Other Publications

Proceedings

1. Ziegler AD, TW Giambelluca, RA Sutherland. 2001. Modeling road sediment transport with KINEROS2. In: Ascough JC and DC Flanagan (Eds), *Soil Erosion Research for the 21st Century*, Proceedings: 699-702.
2. Sutherland RA, AD Ziegler, LT Tran. 1997. Rolled erosion control systems and their effect on sediment redistribution by rainsplash – a laboratory investigation. *International Erosion Control Association – Proceedings 28*: 427-443.
3. Sutherland RA, AD Ziegler. 1997. A field examination of rolled erosion control systems and their influence on runoff and sediment transport. *International Erosion Control Association – Proceedings 28*: 427-443.
4. Sutherland RA, AD Ziegler. Geotextile effectiveness in reducing interill runoff and sediment flux. *Erosion Control Technology – Bringing it Home: Proceedings of Conference XXVII*: 393-405.

Misc Publications

1. Ziegler, A.D., R.A. Sutherland, and T.W. Giambelluca. 1999. Rainfall simulation experiments to investigate runoff generation and sediment transport on various landuse types in northern Thailand. *Geographical Journal*, Geographical Association of Thailand 24 (2): 1-34.
2. Ziegler, A.D., and T.W. Giambelluca. 1997. Hydrologic change and accelerated erosion resulting from agriculture and road building in northern Thailand. *Explorations in Southeast Asian Studies* 1(1): 2-12.

Foreign Language Publications

1. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland, M.A. Nullet, S. Yarnasarn, J. Pinthong, S. Jaiarree. อุทกวิทยาและการเปลี่ยนแปลงภูมิทัศน์ของพื้นที่ภูเขาภาคเหนือของประเทศไทย: ผลกระทบของถนน. (Hydrology and Landscape Evolution in Mountainous Tropical Watersheds: the Impact of Rural Roads) *Kasetsart Science Journal*.

Technical Reports

1. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland, T.T. Vana, D. Ko, P. Malaspino, and E. Lind. 1998. Erosion control effectiveness of a coral-based gravel surfacing material, Schofield Barracks, Oahu, Hawai'i. Technical Report 1998-AZ02, Geomorphological Laboratory, Geography, University of Hawai'i. Prepared for ITAM Range Division, US Army Schofield Barracks, O'ahu Hawai'i.
2. Ziegler, A.D and A.A. Chun Smith. Investigation of soil nutrients on Kaho'olawe Island. 1998. Technical Report 1998-AZ01, Geomorphological Laboratory, Department of Geography, University of Hawai'i Manoa. Prepared for Kaho'olawe Island Reserve Commission, Honolulu, HI.
3. Giambelluca, T.W., J.R. Egan, S.K. Garcia, R. Louis, J.L. Perry, F. Richardson, A. A. Chun-Smith, and A.D. Ziegler. 1997. Lessons learned: an assessment of previous revegetation efforts, Kaho'olawe Island, Hawai'i. Final Report. Kaho'olawe Island Reserve Commission, Honolulu, HI.
4. Ziegler, A.D. 1994. Strengthening primary health care in rural areas: evaluation of the baseline survey, Sheikhpura pilot project. Internal Report. Pakistan Institute for Environment-Development Action Research (PIEDAR), Islamabad, Pakistan.

Other conference Proceedings

1. Giambelluca, TW, RA Sutherland, K Nanko, R. Mudd, AD Ziegler. 2010. Effects of Miconia on Hydrology: A first approximation. Proceedings from the Pulling it all together 2009 International Miconia Conference, 4-7 May 2009, Maui, Hawaii.
2. Dan, N.P., Liem, TT, AD Ziegler, LD. Hiep. 2008. Assessment of change of land use on solid TOC into the Hau River. In proceeding "1st International Conference on Environment and Natural Resources, Ho Chi Minh City, Vietnam, March 17th-18th, 2008 that was organized by Swiss Federal Institute of Technology Lausanne (EPFL)

and Vietnam National University - HCMC and Institute for Environment and Resources. pp.90-100, ICENR 2008, with the theme "Environmental Protection for Urban and Industrial Zones to International Integration"

3. Negishi, J.N., A.D. Ziegler, S. Noguchi, R.C. Sidle, N. Abdul Rahin. 2004. Storm flow generation in a tropical headwater zero-order basin in peninsular Malaysia. In R.C. Sidle, M. Tani, N. Abdul Rahim, and Tewodros Ayele, (eds.) *Forests and Water in Warm, Humid Asia*, Proceedings of a workshop of the IUFRO Forest Hydrology Working Group (8.03.00), 10-12 July 2004, Kota Kinabalu, Sabah, Malaysia.
4. Ziegler, A.D., Negishi, J.N., R.C. Sidle, P. Preechanpanya, R.A. Sutherland, T.W. Giambelluca. 2004. Reduction of road-generated stream suspended sediment by a riparian buffer. In R.C. Sidle, M. Tani, N. Abdul Rahim, and Tewodros Ayele, (eds.) *Forests and Water in Warm, Humid Asia*, Proceedings of a workshop of the IUFRO Forest Hydrology Working Group (8.03.00), 10-12 July 2004, Kota Kinabalu, Sabah, Malaysia.
5. Ziegler, A.D. and T.W. Giambelluca. 1998. A preliminary simulation of hydrologic change and accelerated erosion resulting from road expansion in northern Thailand. Proceedings of FORTROP'96, pp. 211-226, Kasetsart University, Bangkok, Nov. 23-29, 1996.
6. Giambelluca, T.W., and A.D. Ziegler. 1998. Influence of long-term land cover change on river flow in northern Thailand. Proceedings of FORTROP'96, pp. 1-20, Kasetsart University, Bangkok, Nov. 23-29, 1996.
7. Ziegler, A.D. and T.W. Giambelluca. 1996. Horton overland flow generation on rural roads: A preliminary investigation of runoff and accelerated soil erosion in northern Thailand. In *Montane Mainland Southeast Asia in Transition*, pp. 206-232, The CMU-Consortium, Multiple Cropping Centre, Chiang Mai, University, Chiang Mai, Thailand.
8. Giambelluca, T.W. and A.D. Ziegler. 1996. Climatological and hydrological implications of land cover change in highland Southeast Asia. In *Montane Mainland Southeast Asia in Transition*, pp. 181-205, The CMU-Consortium, Multiple Cropping Centre, Chiang Mai, University, Chiang Mai Thailand.

Conference Papers | Posters

1. Nguyen, TTC, RA Wasson, SH Win, K Pai, MH Lim, AD Ziegler. 2015. Heavy Metal Distributions in a Tropical Forest Catchment. Presentation IG03-D3-PM2-329-009. Session IG03 - Tropical Forest Ecology and Hydrology. 2015 AOGS. 2-7 August 2015, Singapore.
2. Win, SH, TTC Nguyen, K Pai, MW Lim, RA Wasson, AD Ziegler. 2015. Water Quality and Hydrologic Conditions in the Nee Soon Freshwater Swamp Forest, Singapore: Implications for Ecological Systems. Presentation IG03-D4-PM2-P-016. Session IG03 - Tropical Forest Ecology and Hydrology. 2015 AOGS. 2-7 August 2015, Singapore.
3. Win, SH., RA Wasson, T O'Dempsey, TTC Nguyen, AD Ziegler. 2015. History of Land Use / Land Cover Changes in the Nee Soon Swamp Forest, Singapore: Combined Inventory of Historical and Contemporary Mapping Products. Presentation IG03-D4-PM2-P-017. Session IG03 - Tropical Forest Ecology and Hydrology. 2015 AOGS. 2-7 August 2015, Singapore.
4. Wasson, RA, AD Ziegler, K Pai, KNBM Ramdzan, RYT Koh, TTC Nguyen. 2015. Erosion and Recovery Regimes in the Nee Soon Swamp Forest Catchment, Singapore. Presentation IG03-D3-PM2-329-010. Session IG03 - Tropical Forest Ecology and Hydrology. 2015 AOGS. 2-7 August 2015, Singapore.
5. Wasson, RA, AD Ziegler, TTC Nguyen, K Pai, SH Win. 2015. Disturbance Regimes at the Interface of Geomorphology and Ecology at Nee Soon and Johor. Presentation IG03-D3-PM2-329-01. Session IG03 - Tropical Forest Ecology and Hydrology. 2015 AOGS. 2-7 August 2015, Singapore
6. WILCOX, Bruce Alexander; ECHAUBARD, Pierre; FOX, Jeffrey; RICHTER, Carsten; SAKSENA, Sumeet; XU, Jianchu; ZIEGLER, Alan. Toward a Theory of Pathogenic Landscapes: Insights from Three Zoonoses in the Mekong Region. 3rd GRF One Health Summit 2015. 04 - 07 October 2015. Davos, Switzerland
7. Ziegler, AD, C Grundy-Warr, YT Lee, MH Lim, JC Chuah, X Ong, P Echaubard, B Wilcox. A multidisciplinary investigation of *Opisthorchis viverrini* in Thailand. MTDA2014-Interdisciplinary Research on Liver Flukes, Khon Kaen Thailand, 16-17 September, 2014.
8. Lee, YT, C Grundy-Warr, AD Ziegler, L Laithevewat, W Wannasook, N Khuntikeo, P Sithithaworn. What do they know, and where did they hear it? Case study: Evaluating *Opisthorchis viverrini* (OV) knowledge in a Northeast

- Thai village. MTDASOA2014-Interdisciplinary Research on Liver Flukes, Khon Kaen Thailand, 16-17 September, 2014.
9. Ziegler, AD.: Hydrological change in the humid tropics. Third International Tropical Hydrology Workshop (9-14 Feb 2014, Borneo).
 10. Ziegler, AD, E Velasco, KJJ Ho. Commuter exposure to black carbon, carbon monoxide, and noise in the mass transport khlong boats of Bangkok, Thailand. AGU Fall Meeting, 9-13 December 2013, San Francisco.
 11. Wood HS, T Rittenour, AD Ziegler. Stratigraphy on the Mekong. 8th IAG/AIG International Conference on Geomorphology, 27-31 Aug 2013, Paris
 12. Ziegler, AD, HS Lim, SH Wood. Moving forward; Looking backwards. 8th IAG/AIG International Conference on Geomorphology, 27-31 Aug 2013, Paris
 13. Ng, XQS, SH Wood, AD Ziegler. Rivers in Thai History - Implications for Management. 8th IAG/AIG International Conference on Geomorphology, 27-31 Aug 2013, Paris
 14. Jia Qi Yuen, Alan D Ziegler, Edward L Webb. 2012. Review of below-ground root carbon biomass data for Southeast Asia: Limitations and uncertainties for REDD+ decision making. 8th Mathematics and Physical Science Graduate Congress, 12-14 December 2012, Bangkok, Thailand.
 15. Anver, MS, AD Ziegler. Artificial Intelligence Approaches for Streamflow Modelling. 8th Mathematics and Physical Science Graduate Congress, 12-14 December 2012, Bangkok, Thailand.
 16. Ziegler, AD, JC Chuah. The role of water use and management in the dynamics of water-borne pathogens in SE Asia – NUS Geography's research directions. An Ecological, genetic, and geographical assessment of the dynamics of *Opisthorchis viverrini* and other water-borne trematodes in the Greater Mekong Subregion of Southeast Asia. International workshop 9-15 September 2012, Karlsruhe Institute of Technology, Karlsruhe Germany.
 17. Yuen, JQ, AD Ziegler. Accumulation of Potentially Toxic Elements in Road Deposited Sediments in Residential and Light Industrial Neighborhoods of Singapore Paper # HS10-A022, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 18. Quak, SYM, NRA Jachowski, D Duangnamon, EL Webb, AD Ziegler. Carbon Biomass in a Rhizophora-dominated Mangrove in Thailand. Paper # G04-A005, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 19. Song, SHM, XQS Ng, AD Ziegler. Toward Better Management of Elephant Trail Degradation. Poster # HS16-A033, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 20. Ang, ZJ, P Olin, S Benner, SH Wood, RA Sutherland, AD Ziegler. Geochemical Partitioning of Total Suspended Solids in a Tropical Catchment. Paper #HHS22-A007, AOGS-AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 21. Ziegler, AD, NRA Jachowski, HS Lim, RJ Wasson. Floods, False Hopes, and the Future. Paper # HS22-A008, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 22. Ng, XQS, SH Wood, AD Ziegler. Rivers in Thai History - Implications for Management. Paper # HS22-A009, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 23. Anver, MS, AD Ziegler. Artificial Intelligence Approaches for Streamflow Modelling. Paper # HHS16-A033, AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012.
 24. Wasson RJ, B Newell, AD Ziegler, MJ Gillen. 2012. Making systems thinking mainstream. System Dynamics: System Dynamics Thinking and Modelling in Public Policy and Education. NUS-GAI Inaugural Signature Conference 2012. Transcending boundaries of geography and knowledge 28-29 June 2012.
 25. Quak SYM, Jachowski N, Friess DA, Duangnamon D, Webb EL, and Ziegler AD. Species importance and above-ground biomass of a Rhizophora-dominated Mangrove, Ranong, Thailand. 7th Mathematics and Physical Science Graduate Congress, NUS Singapore, 12-14th December 2011 – Geological Science.
 26. Yuen, JQ. AD Ziegler, RA Sutherland. Accumulation of Potentially Toxic Elements in Road Deposited Sediments in Residential & Light Industrial Neighborhoods of Singapore. 7th Mathematics and Physical Science Graduate Congress, NUS Singapore, 12-14th December 2011.
 27. Slaets J, P Schmitter, A Bürger, AD Ziegler, T Hilger, G Dercon, N. Huu Thanh, N Lam, T Duc Vien, G Cadisch. Tracing carbon fluxes with turbidity sensors: a time saving alternative for better understanding nutrient flows at the landscape level. International Symposium on Soil Organic Matter 2011: Organic matter dynamics - from soils to oceans". It is in Leuven, Belgium from 11-14 July 2011.
 28. Chu Ling, Hannah Chiang En Wan, Hakimah Nur Diniyah, Elva Segovia Estrada, Hector Erik Velasco, Alan D Ziegler, Variation in Nitrogen Compound Deposition in Different Ecosystems Along the Andaman Coast, The

- 6th Mathematics and Physical Science Graduate Congress 2010, 13-15 December 2010, University of Malaya, Malaysia.
29. Lee Jia En, Grace Zhang, Suliana Johani, James P Terry, Alan D Ziegler, Mangrove recovery and beach evolution following the 2004 Indian Ocean Tsunami. The 6th Mathematics and Physical Science Graduate Congress 2010, 13-15 December 2010, University of Malaya, Malaysia.
 30. Implications of Rapid Land-cover/Land-use Change in Montane Mainland SE Asia, 2012. Sustainable Land Use and Rural Development in Mountainous Regions of Southeast Asia, 21-23 July 2010 Hanoi.
 31. Nicholas Jachowski, Alan D. Ziegler, Lucy G. Gillis, Tjeerd Bouma. 2010. Mangrove resilience to the 2004 Indian Ocean Tsunami: evidence for inter-ecosystem facilitation on the Andaman Coast of Thailand. 6th APRU Research Symposium on Multi-Hazards around the Pacific Rim. 27-29 August, 2010, Beijing, China.
 32. Giambelluca, T.W. 2010. Cloud water interception and canopy water partitioning in tropical montane cloud forests in Hawai'i. Interdisciplinary Studies on Global Climate Change and the Ecology and Management of Tropical Montane Ecosystems. Cordillera Central, Dominican Republic, March 2010
 33. Thomas Giambelluca, Ryan Mudd, Alan Ziegler, Maoyi Huang, Wen Liu, Michael Nullet, Qi Chen, Jefferson Fox. 2010. Preliminary estimates of evapotranspiration for a rubber plantation in Nong Khai, northeastern Thailand. Hydrology delivers Earth System Science to Society. GSWP/GLASS AsiaFlux/FLUXNET LandFlux-Val. 22-25 June 2010. Tokyo.
 34. Ziegler, AD. Sediment and nutrient dynamics in a SE Asian headwater catchment. 6th Annual General Meeting of AOGS, Singapore, 11-5 August 2009.
 35. Quek, SL, Wang, YC, Ziegler, AD. 6th Annual General Meeting of AOGS, Singapore, 11-5 August 2009
 36. Dan, N.P., Liem, TT, AD Ziegler, LD. Hiep. 2008. Assessment of change of land use on solid TOC into the Hau River. In proceeding "1st International Conference on Environment and Natural Resources, Ho Chi Minh City, Vietnam, March 17th-18th.
 37. Dan, N.P., Liem, TT, AD Ziegler, LD. Hiep. Assessment of change of land use on solid TOC into the Hau River Regional Conference on Global Environment, Feb 2-3, 2009, Manila, Philippines.
 38. Thomas W. Giambelluca, Ross A. Sutherland, Kazuki Nanko, Ryan Mudd, Alan Ziegler. Effects of Miconia on hydrology: A first approximation. Pulling it all Together 2009 International Miconia Conference May 4-7, 2009 Maui, Hawaii.
 39. Guardiola-Claramonte, M, PA Troch, AD Ziegler, TW Giambelluca, JB Vogler, MA Nullet. 2006. The effects of introducing non-native vegetation on hydrological partitioning in a tropical catchment. 93rd ESA annual meeting, Milwaukee WI, 8 Aug 2008. <http://eco.confex.com/eco/2008/techprogram/P12001.HTM>.
 40. Ziegler, AD., C Tantasarin, S Benner, Lu Xixi, T Giambelluca, D Higgitt. 2007. Sediment and Nutrient Fluxes in a Tropical Headwater Stream in Northern Thailand. International Association of Geomorphologists, Koto Kinabalu, Sabah, Malaysia, 25-29 June 2007.
 41. Benner, SG, AD Ziegler, C Tantasarin, Lu Xixi, T Giambelluca. 2006. Quantifying Stream Flux of Carbon Nitrogen and Phosphorus in a Tropical Watershed, Mae Sa Thailand. AGU Fall Meeting, Dec 2007, San Francisco.
 42. Ziegler, A.D. Nutrient Dynamics in a Headwater Basin in SE Asia: Building a Foundation for Investigation of the Impacts of Anthropogenic Change (preliminary results for project Project 95/01/C - Southeast Asia Regional Committee for START (SARCS). Advanced Training workshop on SE Asia Regional Carbon and Water Issues, 14-25 Nov 2006, Chung-Li/Kaohsiung, Taiwan.
 43. T.W. Giambelluca, A.D. Ziegler, E.D. Larkin, L. Cuo, M. Nullet, 2006. Radiation and water balances in a tropical catchment undergoing land-cover conversion in Northern Thailand. (ST1-37A38-499). 3rd APHW Conference, Bangkok Thailand 16-18 Oct. 2006.
 44. Ziegler, A.D., T.W. Giambelluca, M. Nullet, C. Tantasarin. 2006. Throughfall distribution in a tropical forest (ST1-37-A38-286). 3rd APHW Conference, Bangkok Thailand 16-18 October 2006.
 45. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland, M. Nullet, Soil translocation by weeding on swidden fields in northern Vietnam, Highland 2006 Symposium, Makelle, Ethiopia, 18-24 Sept. 2006.
 46. Ziegler, A.D., Negishi, J.N., R.C. Sidle, P. Preechanpanya, R.A. Sutherland, T.W. Giambelluca. 2004. Reduction of road-generated stream suspended sediment by a riparian buffer. Forests and Water in Warm, Humid Asia: workshop of the IUFRO Forest Hydrology Working Group (8.03.00), 10-12 July 2004, Kota Kinabalu, Sabah, Malaysia.

47. Negishi, J.N., A.D. Ziegler, S. Noguchi, R.C. Sidle, N. Abdul Rahin. 2004. Storm flow generation in a tropical headwater zero-order basin in peninsular Malaysia. *Forests and Water in Warm, Humid Asia: workshop of the IUFRO Forest Hydrology Working Group (8.03.00)*, 10-12 July 2004, Kota Kinabalu, Sabah, Malaysia.
48. Negishi, J.N., R.C. Sidle, S. Noguchi. A.R. Nik, A.D. Ziegler. 2003. Effects of forest Roads on internal biogeochemical pathways in tropical catchments. Paper H51A-06. 2003 AUG Fall Meeting, San Francisco, CA 9-13 Dec. 2003.
49. Cuo, L., T.W. Giambelluca, A.D. Ziegler, M.N. Nullet. 2003. Using DHSVM to study road effects on stream flow and soil moisture. Paper H51A-07. AGU Fall Meeting, San Francisco, CA. 9-13 Dec. 2003.
50. Wood, S., J.P. McNamara, Alan D. Ziegler. 2003. Channel Initiation on slopes and roads in a tropical montane watershed in northern Thailand. Paper H51F-05. 2003 Fall Meeting, San Francisco, CA. 9-13 Dec. 2003.
51. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland, M.A. Nullet. 2003. Bedload transport in a tropical headwater catchment. Paper H51F-06. 2003 Fall AGU Meeting, San Francisco, CA. 9-13 Dec. 2003.
52. Ziegler, A.D., E.P. Maurer, B. Nijssen, J. Sheffield, E.F. Wood, D.P. Lettenmaier. Detection of Acceleration in the Global Water Cycle: The Potential Role of FRIEND. FRIEND 2002. 4th International Conference on FRIEND. UNESCO International Hydrology Programme Flow Regimes from International Experimental and Network Data. Cape Town, South Africa, 18-22 March 2002.
53. Jefferson Fox, Terry Rambo, Le Trong Cuc, Thomas Giambelluca, Alan Ziegler. Linking household and remotely sensed data for understanding forest fragmentation in Northern Vietnam. *Linking Household and Remotely Sensed Data: Methodological and Practical Problems*. January 2002. East-West Center, Honolulu HI USA.^a
54. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland M.A Nullet. Understanding the influence of roads on runoff generation in an upland watershed in Thailand. Chapman Conference on Hillslope Hydrology (AGU), Bend OR, Oct 8-12, 2001.
55. Ziegler, A.D., T.W. Giambelluca, TT Vana, M.A. Nullet. Alteration of hydrological flowpaths by landcover fragmentation in the Da River basin, Vietnam. Chapman Conference on Hillslope Hydrology (AGU), Bend Oregon, Oct 8-12, 2001.
56. Chen, Y., A.D., Ziegler, J. Sheffield, E.F., Wood, D.P. Lettenmaier, B Nijssen, R. Schnur. 2001. Correction of high-latitude anomaly in NCAR-NCEP reanalysis precipitation field. AGU Spring Meeting, Boston.
57. Sheffield, J., A.D. Ziegler, E.P. Maurer, B. Nijssen, E.F. Wood, D.P. Lettenmaier, A. Broccoli. Identifying Appropriate Temporal and Spatial Scales for Detecting Global Water Cycle Intensification. AGU Spring Meeting, 28 May – 2 June, 2001, Boston.^{b,c}
58. Ziegler, A.D., T.W. Giambelluca. Hydrological flowpath alteration by landcover fragmentation Case study: TatHamlet, Da River Basin northern Vietnam. Third International Conference on Land Degradation. Rio de Janeiro, Brazil, Sept 24-28, 2001.
59. Giambelluca, T.W., Ziegler, A.D., Nullet, M.A., Cuo, L. Energy and water fluxes at Pang Khum Experimental Watershed, Chiang Mai Province Thailand. GEWEX-Asian Monsoon Experiment annual meeting. March 13-17, 2000, Chiang Mai, Thailand.^a
60. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland. 2001. Modeling road sediment transport with KINEROS2. *Soil Erosion for the 21st Century - An International Symposium*, January 3-5, 2001, Honolulu, HI.
61. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland. Toward understanding road-related erosional impacts in mountainous watersheds in northern Thailand (poster). AGU Fall Meeting, 15-19 Dec., 2000, San Francisco.
62. Ziegler, A.D., R.A. Sutherland, T.W. Giambelluca. Surface preparation processes and sediment detachment by vehicular traffic on unpaved mountain roads in northern Thailand (poster). AGU Fall Meeting, 13-17 Dec., 1999, San Francisco.
63. Ziegler, A.D., T.W. Giambelluca, R.A. Sutherland. Estimation of basin sediment flux in the Pang Khum Experimental Watershed in northern Thailand: the contributions of roads and agricultural lands. *Land-Water Linkages in Rural Watersheds*. 18 Sept - 28 Oct 2000. Land & Water Development Division, FAO.
64. Warren, S.D., Ziegler, A.D., T.W. Giambelluca, J.L. Perry. 2000. Revegetation strategies for Kaho`olawe Island, Hawaii. 54th Annual Meeting of the Society for Range Management, 17-23 February, Kailua-Kona, HI.^a
65. Giambelluca, T.W., Ziegler, A.D., Tran, L.T., Sutherland, R.A., and Nullet, M.A. How changing land-use is modifying hydrologic processes in mountainous areas of Southeast Asia. *Environmental services and land use change: Bridging the gap between policy and research in SE Asia*, 31 May-2 Jun 1999, Chiang Mai, Thailand.^a
66. Ziegler, A.D., Sutherland, R.A., and Giambelluca, T.W. Field rainfall simulation experiments to investigate runoff generation and sediment transport on mountainous roads in northern Thailand. To be presented at

- “Environmental services and land use change: Bridging the gap between policy and research in SE Asia,” 31 May-2 June 1999, Chiang Mai, Thailand.^a
67. Giambelluca, T.W., A.D. Ziegler, and M.A. Nullet. Influences of landscape fragmentation on hydrological processes, Hoa Binh, Vietnam. 95th AAG Meeting, Honolulu, 23-29 Mar 1999.^a
 68. Ziegler, A.D., R.A. Sutherland, and T.W. Giambelluca. Sediment Production on an Unpaved Road Surfaces in Northern Thailand: Initial Results of Field Rainfall Simulation. 95th AAG Meeting, Honolulu, 23-29 Mar 1999.
 69. Ziegler, A.D., R.A. Sutherland, T.W. Giambelluca. Sediment Production on an Unpaved Road Surfaces in Northern Thailand: preliminary results of field rainfall simulation. Meeting the Challenges of Land Degradation in the 21st Century; Second Int Conference on Land Degradation. Khon Kaen, Thailand. Jan 24-29, 1999.
 70. Ziegler, A.D., T.W. Giambelluca. A preliminary simulation of hydrologic change and accelerated erosion resulting from road expansion in northern Thailand. FORTROP'96, Kasetsart U, Bangkok, Nov. 23-29, 1996.
 71. Giambelluca, T.W., and A.D. Ziegler. Influence of long-term land cover change on river flow in northern Thailand. FORTROP'96, Kasetsart University, Bangkok, Nov. 23-29, 1996.^a
 72. Ziegler, A.D. and T.W. Giambelluca. Runoff generation on mountainous roads in northern Thailand. 28th IGU Conference, The Hague, The Netherlands, Aug., 1996.
 73. Sutherland, R.A. and A.D. Ziegler. Geomorphological effectiveness of erosion control blankets — an interrill laboratory study. *XXVII Conference of the International Erosion Control Association*. Seattle, WA, Jan., 1996.^{ab}
 74. Ziegler, A.D. and T.W. Giambelluca. Horton overland flow generation on rural mountain roads in northern Thailand. *Montane Mainland Southeast Asia in Transition Symposium*, Chiang Mai, Thailand, Nov., 1995.
 75. Giambelluca, T.W. and A.D. Ziegler. Climatological and hydrological implications of land cover change in highland Southeast Asia. *Montane Mainland Southeast Asia in Transition Symposium*, Chiang Mai, Thailand, Nov., 1995.^a
 76. Ziegler, A.D., and R.A. Sutherland. Effectiveness of four erosion control geotextiles on interrill processes. IV Pacific Science Congress, Beijing, China, June 1995.

Conference Participation

- AOGS2015, 2015 AOGS. 2-76 August 2015, Singapore
- MTDASOA2014-Interdisciplinary Research on Liver Flukes, Khon Kaen Thailand, 16-17 September, 2014.
- Third International Tropical Hydrology Workshop (9-14 Feb 2014, Borneo).
- An Ecological, genetic, and geographical assessment of the dynamics of *Opisthorchis viverrini* and other water-borne trematodes in the Greater Mekong Subregion of Southeast Asia. International workshop 9-15 September 2012, Karlsruhe Institute of Technology, Karlsruhe Germany.
- AOGS - AGU (WPGM) Joint Assembly, Singapore, 13-17 Aug 2012^a,
- Life-cycle, livelihoods and parasites: human, environment, and health dynamics of *Opisthorchis viverrini* in the Mekong Region. 10-12 March 2011. NUS Singapore^c
- Sustainable Land Use and Rural Development in Mountainous Regions of Southeast Asia, 21-23 July 2010 Hanoi^{a,h}
- Science for Water Policy, Hydrology in a Changing Climate. Chiang Mai University, 16 July 2010 a
- Forest-agriculture frontiers: impacts of land-use transitions on livelihoods and environment in the humid Tropics, Vientiane, Lao PDR, 2-6 Nov, 2009^k.
- 6th Annual General Meeting of AOGS, Singapore, 11-5 August 2009,^{a,h}
- 4th Asian Graduate Forum on SE Asia Studies, Asia Research Institute, NUS, Singapore, 15-17 July 2009^h
- Biofuels: The Impact of Oil Palm on Forests and Climate, Singapore, May 12-13, 2009^h.
- Demise in Swidden Agriculture in SE Asia? Ha Noi, Vietnam, 2-7 March 2008^k.
- International Association of Geomorphologists, Koto Kinabalu, Sabah, Malaysia, 25-29 June 2007^a
- Mekong @ Crossroads, Chiang Mai, Thailand, 14-15 May 2007.
- Workshop on SE Asia Regional Carbon & Water Issues, Chung-Li & Kaohsiung, Taiwan, 14-25 Nov 2006^a
- 3rd APHW Conference, Bangkok Thailand, 16-18 Oct. 2006^a
- HIGHLAND 2006 Symposium. Makelle, Ethiopia, 18-24 September, 2006^a
- IUFRO Forests and Water in Warm, Humid Asia, Kota Kinabalu, Sabah, Malaysia, 10-12 July 2004^{a,h,i,j}

American Geophysical Union Spring Meeting, San Francisco, CA, 9-13 Dec, 2003^{a,g,h,j}
 Fourth International Conference on FRIEND, Cape Town, South Africa, Mar 2002^a
 Chapman Conference on Hillslope Hydrology (AGU), Bend OR USA, 8-12 Oct 2001^a
 Third International Conference on Land Degradation (ICLD3). Rio de Janeiro, Brazil, 24-28 Sept 2001^a
 American Geophysical Union Spring Meeting, 28 May – 2 June, 2001, Boston, MA^a
 Soil Erosion for the 21st Century - An International Symposium, 3-5 Jan 2001, Honolulu, HI^a
 American Geophysical Union Fall Meeting, 14-19 Dec 2000, San Francisco, CA^a
 Land-Water Linkages in Rural Watersheds. 18 Sep - 28 Oct 2000 (FAO WWW electronic conference)^a
 Forest-Water-People in the Humid Tropics, UNESCO Symposium, Kuala Lumpur, Malaysia, 30 Jul-4 Aug 2000
 American Geophysical Union Fall Meeting, 13-17 Dec 1999, San Francisco, CA^a
 95th Annual Meeting of the Association of American Geographers, Honolulu HI, 23-29 Mar 1999^a
 Meeting the Challenges of Land Degradation in the 21st Century, Khon Kaen, Thailand, 22-31 Jan 1999^a
 FORTROP'96, Kasetsart University, Bangkok, Thailand, 25-29 Nov 1996^{a b}
 28th Annual International Geographical Union, Den Hague, The Netherlands, Aug. 1996^{a d}
 27th International Erosion Control Association Conf., Seattle, WA, Jan 1996^{d e}
 Hillside Farming: The Future of Soil?, Sponsored by Mae Jo University, Chiang Mai, Thailand, Dec 1995
 Montane Mainland Southeast Asia in Transition Symposium, Chiang Mai, Thailand, Nov 1995^a
 IV Pacific Sciences Congress, Beijing, China, June 1995^{a d}
 American Geophysical Union, Spring Meeting, June 1995, Baltimore, MD^{d f}
 UHM College of Social Sciences Student Conference, Honolulu, HI, Apr 1995^c
 Sixth Annual Global Change Conference, AMS, Dallas, TX, Jan 1995^d
 NOAA Colloquium on Environmental Prediction, Camp Springs, MA, June 1994^d

^aPresented paper/poster

^bRapporteur

^cMember of the organizing committee

^dReceived scholarship to attend

^eReceived Best Technical Paper Award

^fReceived Horton Hydrology Award

^gSession Organizer

^hSession Chair

ⁱPoster judge

^jSpecial Journal Editor

^kInvited Panel Member