

**List of Scientific Publications BIRKMANN, Joern (Jörn);
ORCID: 0000-0001-8733-3964; Scopus author ID: 21733408600
(Selection)**

**over 100 scientific publications;
in Scopus listed at present 88 documents; H-Index 31**

Key Publications

Birkmann, J. Jamshed, A., McMillan, J.M., Feldmeyer, D., Totin, E., Solecki, W., Ibrahim, Z.Z., Roberts, D. Kerr, E.B., Poertner, H.O., Pelling, M., Djalante, R., Garschagen, M., Filho, W.L., Sapir, D.G., Alegria, A. (2022): Understanding human vulnerability to climate change: A global perspective on index validation for adaptation planning. *Science of the Total Environment*, Vol 803, 150065, DOI: <https://doi.org/10.1016/j.scitotenv.2021.150065>

Birkmann, J., Feldmeyer, D., McMillan, J.M., Solecki, W., Totin, E., Roberts, D., Trisos, C., Jamshed, A., Boyd, E., Wrathall, D. (2021): Regional clusters of vulnerability show the need for transboundary cooperation. *Environmental Research Letters*, Vol 16, 094052. DOI: <https://doi.org/10.1088/1748-9326/ac1f43>

O'Neill, B., Oppenheimer, M., Warren, R., Hallegatte, S., Kopp, R., Pörtner, H.O., Scholes, R., **Birkmann, J.**, Foden, W., Licker, R., Mach, K., Marbaix, P., Mastrandrea, M., Price, J., Takahashi, K., Van Ypersele, J.P., Yohe, G. (2017): IPCC reasons for concern regarding climate change risks, *Nature Climate Change* 7, 28-37. (97 times cited/ web of science)
<https://doi.org/10.1038/nclimate3179>
(available online: www.nature.com/articles/nclimate3179)

O'Neill, B., Kriegler, E., Ebi, K.L., Kemp-Benedict, E., Riahi, K., Rothman, D., van Ruijven, B., van Vuuren, D., **Birkmann, J.**, Kok, K., Levy, M., Solecki, W. (2017): The roads ahead: Narratives for shared socioeconomic pathways describing world futures in the 21st century, *Global Environmental Change* 42, 169-180. (958 times cited/ web of science)
<https://doi.org/10.1016/j.gloenvcha.2015.01.004>

Birkmann, J., Welle, T., Solecki, W., Lwasa, S., Garschagen, M. (2016): Boost resilience of small and mid-sized cities – Smaller settlements are growing faster than megacities – and they need more protection from extreme events, *Nature*, 537, 605-608. (79 times cited/ web of science)
<https://www.nature.com/news/boost-resilience-of-small-and-mid-sized-cities-1.20667>

Scientific articles in journals – peer-reviewed (selection):

2023

Truedinger A., Jamshed A., Sauter, H., Birkmann, J. (2023): Adaptation after Extreme Flooding Events: Moving or Staying? The Case of the Ahr Valley in Germany, *Sustainability* 15(2):1407. DOI: [10.3390/su15021407](https://doi.org/10.3390/su15021407)

2022

Birkmann, J. Jamshed, A., McMillan, J.M., Feldmeyer, D., Totin, E., Solecki, W., Ibrahim, Z.Z., Roberts, D. Kerr, E.B., Poertner, H.O., Pelling, M., Djalante, R., Garschagen, M., Filho, W.L., Sapir, D.G., Alegria, A. (2022): Understanding human vulnerability to climate change: A global perspective on index validation for adaptation planning. *Science of the Total Environment*, Vol 803, 150065. DOI: <https://doi.org/10.1016/j.scitotenv.2021.150065>

Iqbal, N., Ravan, M., Jamshed, A., Birkmann, J., Somarakis, G., Mitrika, Z., Chrysoulakis, N. (2022): Linkages between Typologies of Existing Urban Development Patterns and Human Vulnerability to Heat Stress in Lahore. *Sustainability*, 14(17), 10561. DOI: <https://doi.org/10.3390/su141710561>

McMillan, J.M., Birkmann, J., Tangwanichagapong, S., Jamshed, A. (2022): Spatial Planning and Systems Thinking Tools for Climate Risk Reduction: A Case Study of the Andaman Coast, Thailand. *Sustainability* 14:8022. DOI: <https://doi.org/10.3390/su14138022>

Puntub, W, Schnittfinke, T; Fleischhauer, M., Birkmann, J., Garschagen, M., Sandholz, S., Wannewitz, M. (2022): Linking science and practice in participatory future-oriented assessment and planning of human heat stress vulnerability in Bonn, Germany. *Journal of Environmental Planning and Management*. DOI: [10.1080/09640568.2022.2043260](https://doi.org/10.1080/09640568.2022.2043260)

2021

Birkmann, J., Feldmeyer, D., McMillan, J.M., Solecki, W., Totin, E., Roberts, D., Trisos, C., Jamshed, A., Boyd, E., Wrathall, D. (2021): Regional clusters of vulnerability show the need for transboundary cooperation. *Environmental Research Letters*, Vol 16, 094052. DOI: <https://doi.org/10.1088/1748-9326/ac1f43>

Birkmann, J., Sauter, H., Garschagen, M., Fleischhauer, M., Puntub, W., Klose, C., Burkhardt, A., Götsche, F., Laranjeira, K., Müller, J., Büter, B. (2021): New methods for local vulnerability scenarios to heat stress to inform urban planning – Case Study City of Ludwigsburg/Germany. *Climatic Change* 165 (1): DOI: [10.1007/s10584-021-03005-3](https://doi.org/10.1007/s10584-021-03005-3)

Jamshed, A., Birkmann, J., McMillan J., RANA, I.A., Feldmeyer, D., Sauter, H (2021) How do rural-urban linkages change after an extreme flood event? Empirical evidence from rural communities in Pakistan. *Science of the Total Environment*, Vol 750C, 141462. DOI: <https://doi.org/10.1016/j.scitotenv.2020.141462>

Wendnagel-Beck, A., Ravan, M., Iqbal, N., Birkmann, J., Somarakis, G., Hertwig, D., Grimmond, S. (2021): Characterizing Physical and Social Compositions of Cities to Inform Climate Adaptation: Case Studies in Germany. *Urban Planning* 6(4), 321-337. DOI: <https://doi.org/10.17645/up.v6i4.4515>

Maru, M., Worku, H., Birkmann, J (2021): Factors affecting the spatial resilience of Ethiopia's secondary cities to urban uncertainties: A study of household perceptions of Kombolcha city. *HELIYON*. DOI: <http://dx.doi.org/10.1016/j.heliyon.2021.e08472>

Feldmeyer, D., Nowak, W., Jamshed, A., Birkmann, J. (2021): An open resilience index: crowdsourced indicators empirically developed from natural hazard and climatic event data. *Science of the Total Environment*, Vol 774, 145734. DOI: <https://doi.org/10.1016/j.scitotenv.2021.145734>

Leal, W; Stringer, LC; Totin, E; Djalante, R., Pinho, P., Mach, KJ; Carril, LRF; Birkmann, J; Pandey, R; Wolf, F (2021): Whose voices, whose choices? Pursuing climate resilient trajectories for the poor. *Environmental Science and Policy* 121. DOI: [10.1016/J.ENVSOCI.2021.02.018](https://doi.org/10.1016/J.ENVSOCI.2021.02.018)

Feldmeyer, D; Birkmann, J; McMillan, JM; Stringer, L; Filho, WL; Djalante, R; Pinho, PF; Liwenga, E. (2021): Global vulnerability hotspots: differences and agreement between international indicator-based assessments. *Climatic Change* 169 (1-2). DOI: [10.1007/s10584-021-03203-z](https://doi.org/10.1007/s10584-021-03203-z)

Jamshed, A., Birkmann, J., McMillan, J. M., Rana, I. A., Feldmeyer, D., Sauter, H. (2021): How do rural-urban linkages change after an extreme flood event? Empirical evidence from rural communities in Pakistan. *Science of the Total Environment* 750, 141462. DOI: [10.1016/j.scitotenv.2020.141462](https://doi.org/10.1016/j.scitotenv.2020.141462)

Lauer, H., Delos Reyes, M., Birkmann, J. (2021): Managed Retreat as Adaptation Option: Investigating Different Resettlement Approaches and Their Impacts – Lessons from Metro Manila. *Sustainability* 13, no. 2: 829. DOI: <https://doi.org/10.3390/su13020829>

2020

Birkmann, J., Sauter, H., Jamshed, A., Sorg, L., Fleischhauer, M., Sandholz, S., Wannewitz, M., Greiving, S., Bueter, B., Schneider, M., Garschagen, M. (2020): Strengthening risk-informed decision-making: scenarios for human vulnerability and exposure to extreme events, *Disaster Prevention and Management* 29(5), 663-679.

Jamshed, A., Birkmann, J., Rana, I.A., Feldmeyer, D. (2020): The effect of spatial proximity to cities on rural vulnerability against flooding. *Ecological Indicators*, Vol 118, 106704. DOI: <https://doi.org/10.1016/j.ecolind.2020.106704>.

Jamshed, A., Birkmann, J., Rana, I.A., McMillan; J.M. (2020): Relevance of city size to the vulnerability of surrounding rural areas: an empirical study of flooding in Pakistan. *International Journal of Disaster Risk Reduction*, Vol 48, 101601. DOI: <https://doi.org/10.1016/j.ijdrr.2020.101601>

Feldmeyer, D., Wilden, D., Jamshed, A., Birkmann, J., (2020): Validation of indicators and aggregation method of regional climate resilience indicators. *Ecological Indicators*, Vol 119, 106861. DOI: <https://doi.org/10.1016/j.ecolind.2020.106861>.

Jamshed, A., Birkmann, J., Feldmeyer, D., Rana, I.A. (2020): A conceptual framework understand the dynamics of rural-urban linkages for rural flood vulnerability. *Sustainability*, Vol 12, No 7, 2894. DOI: <https://doi.org/10.3390/su1207289>

Feldmeyer, D., Wilden, D., Jamshed, A., Birkmann, J. (2020): Regional climate resilience index: A novel multimethod comparative approach for indicator development, empirical validation and implementation. *Ecological indicators* 119, 106861. DOI: [10.1016/j.ecolind.2020.106861](https://doi.org/10.1016/j.ecolind.2020.106861)

Weisser, B., Jamshed, A., Birkmann, J., McMillan, J. (2020): Building Resilience After Climate-Related Extreme Events: Lessons Learned from Extreme Precipitation in Schwäbisch Gmünd. *Journal of Extreme Events* 7/1. doi.org/10.1142/S2345737620500104

Almeida, L., de Araujo, A., Welle, T., Birkmann, J. (2020): DRIB Index 2020: Validating and enhancing disaster risk indicators in Brazil. *International Journal of Disaster Risk Reduction* 42, 101346. DOI: <https://doi.org/10.1016/j.ijdrr.2019.101346>

Lecina-Diaz, J., Martinez-Vilalta, J., Alvarez, A., Banque, M., Birkmann, J., Feldmeyer, D., Vayreda, J., Retana, J. (2020): Characterizing forest vulnerability and risk to climate-change hazards. *Frontiers in Ecology and the Environment*. DOI: [DI 10.1002/fee.2278](https://doi.org/10.1002/fee.2278)

Jamshed, A., Birkmann, J., Rana, I. A., McMillan, J. M. (2020): The relevance of city size to the vulnerability of surrounding rural areas: An empirical study of flooding in Pakistan. *International Journal of Disaster Risk Reduction*, 2212-4209.

Feldmeyer, D., Meisch, C., Sauter, H., Birkmann, J. (2020): Using OpenStreetMap Data and Machine Learning to Generate Socio-economic Indicators, *International Journal of Geo-Information* 9(9), 498. DOI: <https://doi.org/10.3390/ijgi9090498>

2019

Jamshed, A., Ahmad Rana, I., Maqsood Mirza, U., Birkmann, J. (2019): Assessing the relationship between vulnerability and capacity: An empirical study on rural flooding in Pakistan. *International Journal of Disaster Risk Reduction* 36. DOI: doi.org/10.1016/j.ijdrr.2019.101109

Jamshed; I.A. Rana, J. McMillan; J. Birkmann (2019): Building Community Resilience in Post-Disaster Resettlement in Pakistan. *International Journal of Disaster Resilience in the Built Environment* 10(4). DOI: <https://doi.org/10.1108/IJDRBE-06-2019-0039>

Ravankhah, M., de Wit, R., Argyriou, A., Chliaoutakis, A., Revez, M., Birkmann, J., Žuvela-Aloise, M., Sarris, A., Tzigounaki, A., Giapitsoglou, K (2019): Integrated Assessment of Natural Hazards, Including Climate Change's Influences, for Cultural Heritage Sites: The Case of the Historic Centre of Rethymno in Greece. *International Journal of Disaster Risk Science* 09/01, 343-361.

2018

Feldmeyer, D., Birkmann, J., Welle, T. (2018): Development of Human Vulnerability 2012 – 2017, *Journal of Extreme Events*, Vol. 04/04. DOI: [10.1142/S2345737618500057](https://doi.org/10.1142/S2345737618500057)

Jamshed, A., Rana, I.A., Birkmann, J., Nadeem, O.(2018): Changes in Vulnerability and Response Capacities of Rural Communities After Extreme Events: Case of Major Floods of 2010 and 2014 in Pakistan, *Journal of Extreme Events*, Vol. 04/03. DOI: [10.1142/S2345737617500130](https://doi.org/10.1142/S2345737617500130)

Sorg, L., Medina, N., Feldmeyer, D., Sanchez, A., Vojinovic, Z., Birkmann, J., Marchese, A. (2018): Capturing the multifaceted phenomena of socioeconomic vulnerability. *Natural Hazards*, Vol.9/01; 257-282. DOI: [10.1007/s11069-018-3207-1](https://doi.org/10.1007/s11069-018-3207-1)

2017

O'Neill, B. C., Kriegler, E. Ebi, K. L., Kemp-Benedict, E., Riahi, K., Rothman, D. S., van Ruijven, B. J., van Vuuren, D. P., Birkmann, J., Kok, K., Levy, M., Solecki, W. (2017): The roads ahead: Narratives for shared

socioeconomic pathways describing world futures in the 21st century. *Global Environmental Change*, Vol. 42, 169-180. DOI: [10.1016/j.gloenvcha.2015.01.004](https://doi.org/10.1016/j.gloenvcha.2015.01.004)

O'Neill, B. C., Oppenheimer, M., Warren, R. Hallegatte, S., Kopp, R. E., Pörtner, H. O., Scholes, R., Birkmann, J., Foden, W., Licker, R., Mach, K. J., Marbaix, P., Mastrandrea, M. D., Price, J., Takahashi, K., van Ypersele, J.-P., Yohe, G. (2017): IPCC reasons for concern regarding climate change risks. *Nature Climate Change* 7(1), 28-37. DOI: [org/10.1038/nclimate3179](https://doi.org/10.1038/nclimate3179)

Asadzadeh, A., Koetter, T., Salehi, P., Birkmann, J. (2017): Operationalizing a concept: The systematic review of composite indicator building for measuring community disaster resilience. *International Journal of Disaster Risk Reduction* 25, 147-162. DOI: [10.1016/j.ijdr.2017.09.015](https://doi.org/10.1016/j.ijdr.2017.09.015)

Welle, T., Birkmann, T. (2017): Measuring the Unmeasurable: Comparative Assessment of Urban Vulnerability for Coastal Megacities - New York, London, Tokyo, Kolkata and Lagos. *Journal of Extreme Events*, Vol. 03/ 03 (14 pages). DOI: [10.1142/S2345737616500184](https://doi.org/10.1142/S2345737616500184)

Birkmann, J., Wenzel, F., Greiving, S., Garschagen, M., Valée, D., Nowak, W., Welle, T., Fina, S., Goris, A., Rilling, A., Friedrich, F., Fekete, F., Cutter, S. L., Düzgün, S., Ley, A., Friedrich, M., Kuhlmann, U., Novák, B., Wieprecht, S., Riegel, C., Thieken, A., Rhiyner, J., Ulbrich, U. and Mitchell, J. K. (2017): Extreme Events, Critical Infrastructures, Human Vulnerability and Strategic Planning: Emerging Research Issues, *Journal of Extreme Events*, Vol. 03/04 (25 pages). DOI: [10.1142/S2345737616500172](https://doi.org/10.1142/S2345737616500172)

Birkmann, J., Agboola, J. I., Welle, T., Aho, M., Odunuga, M., von Streit, J., Pelling, M. (2017): Vulnerability, Resilience and Transformation of Urban Areas in the Coastal Megacity Lagos: Findings of Local Assessments and a Household Survey in Highly Exposed Areas. *Journal of Extreme Events*, Vol. 03/03 (24 pages). DOI: [10.1142/S2345737616500196](https://doi.org/10.1142/S2345737616500196)

2016

Birkmann, J., Welle, T., Solecki, W., Lwasa, S., Garschagen, M. (2016): Boost resilience of small and mid-sized cities. *Nature*, Vol. 537/ 7622.

Birkmann, J. and Welle, T. (2016): The WorldRiskIndex 2016: Reveals the Necessity for Regional Cooperation in Vulnerability Reduction. *Journal of Extreme Events*, Vol.03/02. DOI: [10.1142/S2345737616500056](https://doi.org/10.1142/S2345737616500056)

Queiroz de Almeida, L., Welle, T., Birkmann, J. (2016): Disaster Risk Indicators In Brazil: A Proposal Based On The World Risk Index. *International Journal of Disaster Risk Reduction*, 251-272. DOI: [10.1016/j.ijdr.2016.04.007](https://doi.org/10.1016/j.ijdr.2016.04.007)

Muccione, V., Allen, S. K., Huggel, C., Birkmann, J. (2016): Differentiating regions for adaptation financing: the role of global vulnerability and risk distributions, *WIREs Climate Change* 8(2), WCC 477(2). DOI: [10.1002/wcc.447](https://doi.org/10.1002/wcc.447)

2015

Birkmann, J., Welle, T. (2015): Assessing the risk of loss and damage: exposure, vulnerability and risk to climate-related hazards for different country classifications. *International Journal of Global Warming*, vol. 8/2, 191-212. DOI: [10.1504/IJGW.2015.071963](https://doi.org/10.1504/IJGW.2015.071963) (open access LINK).

Birkmann, J., Mechler, R. (2015): Advancing climate adaptation and risk management. New insights, concepts and approaches: what have we learned from the SREX and the AR5 processes? *Climatic Change*, vol. 133/1, 1-6. DOI: [10.1007/s10584-015-1515-y](https://doi.org/10.1007/s10584-015-1515-y)

Welle, T., Birkmann, J. (2015): The World Risk Index – An Approach to Assess Risk and Vulnerability on a Global Scale. *Journal of Extreme Events*, 2/1. DOI: [10.1142/S2345737615500037](https://doi.org/10.1142/S2345737615500037)

Krause, D., Schwab, M., Birkmann, J. (2015): An Actor-Oriented and Context-Specific Framework for Evaluating Climate Change Adaptation. *New Directions for Evaluation* 09/2015, 2015(147). DOI: [10.1002/ev.20129](https://doi.org/10.1002/ev.20129)

Birkmann, J., Cutter, S., Rothman, D., Welle, T., Garschagen, M., Van Ruijven, B., O'Neil, B., Preston, B., Kienberger, S., Cardona, O.D., Siagian, T., Hidayati, D., Setiadi, N., Binder, C., Hughes, B., Pulwarty, R.

(2015): Scenarios for Vulnerability – Opportunities and constraints in the context of climate change and disaster risk, *Climatic Change* 133(1), 53-68.

2014

Løvholt, F., Setiadi, N. J., Birkmann, J., Harbitz, C. B., Bach, C., Fernando, N. Kaiser, G., Nadim, F. (2014): Tsunami risk reduction – are we better prepared today than in 2004? *International Journal of Disaster Risk Reduction* 10, 127-142.

Birkmann, J., Garschagen, M. and Setiadi, N. (2014): New challenges for urban and spatial governance in highly dynamic environments – comparison of guiding visions, planning systems/approaches and actor networks. *Urban Climate*, vol. 7, 115-133.

Birkmann, J. Chang Seng, D., Setiadi, N. (2013): Enhancing early warning in the light of migration and environmental shocks. *Environmental Science & Policy* 03/2013, 27(1), 76-88.

Birkmann, J., Cardona, O. D., Carreño, M. L., Barbat, A. H., Pelling, M., Schneiderbauer, S. Kienberger, S., Keiler, M., Alexander, D. Zeil, P., Welle, T. (2013): Framing vulnerability, risk and societal responses: The MOVE framework. *Natural Hazards* 01/2013, 67(2), 193-211.

van Ruijven, B., Levy, M., Agrawal, A., Biermann, F., Birkmann, J., Carter, T., Ebi K., Garschagen, M., Jones, R., Kemp-Benedict, E., Kok, M., Kok, K., Lemos, M.C., Lucas, P., Orlove, B., Pachauri, S., Parris, T., Patwardhan, A., Petersen, A., Preston, B., Rao, N., Ribot, J., Rothman, D., Schweizer, V. (2014): Enhancing the relevance of global shared socio-economic pathways for climate change vulnerability, impacts, and adaptation research. *Climatic Change* 122 (3), 481-494.

2013

Bach, C., Bouchon, S., Fekete, A., Birkmann, J. Serre, D. (2013): Adding value to critical infrastructure research and disaster risk management: the resilience concept. *SAPIENS* 6 (1) ([online](http://sapiens.revues.org/1626) <http://sapiens.revues.org/1626>)

Birkmann, J., Chang-Seng, D., Setiadi, N. (2013): Enhancing early warning in the light of migration and environmental shocks. *Environmental Science and Policy* 27(1), 76-88.

Birkmann, J., Cardona, O.D., Carreno, L., Barbat, A., Pelling, M., Schneiderbauer, S., Kienberger, S., Keiler, M., Alexander, D., Zeil, P. Welle, T. (2013): Framing vulnerability, risk and societal responses: the MOVE framework. *Natural Hazards*, 67(2), 193-211.

Taubenböck, H., Goseberg, N., Lämmel, G., Setiadi, N., Schlurmann, T., Nagel, K., Siegert, F., Birkmann, J., Traub, K.P., Dech, S., Keuck, V., Lehmann, F., Strunz, G. and Klüpfel, H. (2013): Risk reduction at the “Last-Mile”: an attempt to turn science into action by the example of Padang, *Natural Hazard*, 65 (1), 915–945.

2012

Birkmann, J., Bach, C., Vollmer, M. (2012): Tools for Resilience Building and Adaptive Spatial Governance. Challenges for Spatial and Urban Planning in Dealing with Vulnerability. *Raumforschung und Raumordnung* 70 (2), 293-308.

Fuchs, S., Birkmann, J. and T. Glade (2012): Vulnerability assessment in natural hazard and risk analysis: current approaches and future challenges; *Natural Hazards* 64 (3), 1969-1975.

2011

Birkmann, J. (2011): First and Second-Order Adaptation to Natural Hazards and Extreme Events in the Context of Climate Change. *Natural Hazards* 58(2), 811-840.

Strunz, G., Post, J., Zosseder, K., Wegscheider, S., Mueck, M., Riedlinger, T., Mehl, H., Dech, S., Birkmann, J., Gebert, N., Harjono, H., Anwar, H., Sumaryono; Khomarudin, R.M., Muhair, A. (2011): Tsunami risk assessment in Indonesia. *Natural Hazards and Earth System Science* 11(1), 67-82.

2010

Birkmann, J., von Teichmann, K. (2010): Integrating disaster risk reduction and climate change adaptation: key challenges - scales, knowledge, and norms. *Sustainability Science* 5(2), 171-184.

Birkmann, J., Garschagen, M., Kraas, F., Quang, N. (2010): Adaptive urban governance: new challenges for the second generation of urban adaptation strategies to climate change. *Sustainability Science* 5(2), 185-206.

Miller, F., Osbahr, H., Boyd, E., Thomalla, F., Bharwani, S., Ziervogel, G., Walker, B., Birkmann, J. van der Leeuw, S. Rockström, J., Hinkel, J., Downing, T., Folke, C., Nelson, D. (2010): Resilience and vulnerability: complementary or conflicting concepts?. *Ecology and Society* 15(3): 11.
(online: <http://www.ecologyandsociety.org/vol15/iss3/art11/>)

Glade, T., Felgentreff, C. Birkmann, J. (2010): Editorial for the special issue: extreme events and vulnerability in environment and society; *Natural Hazards* 55 (3): pp 571-576.

Birkmann, J., Teichman, K., Welle, T., Gonzales, M., Olabarrieta, M. (2010): The Unperceived Risk at Europe's Coasts: Tsunamis and the Vulnerability of Cadiz, Spain. *Natural Hazards and the Earth System Science* 10, 2659-2675.

2009

Birkmann, J., Fleischhauer, M. (2009): Anpassungsstrategien der Raumentwicklung an den Klimawandel: „Climate Proofing“ – Konturen eines neuen Instruments (Adaptation strategies in spatial planning – climate proofing: contours of a new tool). *Raumforschung und Raumordnung*, 67 (2), 114-127.

Overbeck, G., Sommerfeldt, P., Köhler, S. Birkmann, J. (2009): Klimawandel und Regionalplanung, Ergebnisse einer Umfrage des ARL-Arbeitskreises „Klimawandel und Raumplanung (Climate change and regional planning). *Raumforschung und Raumordnung*, 67 (2), 194-204.

Fekete, A., Damm, M., Birkmann, J. (2009): Scales as a Challenge for Vulnerability Assessment. *Natural Hazards* 55 (3), 729-747.

Taubenböck, H., Goesberg, N., Setiadi, N., Lämmel, G., Moder, F., Oczipka, M., Klüpfel, H., Wahl, R., Schlurmann, T., Strunz, G., Birkmann, J., Nagel, K., Siegert, F., Lehmann, F., Dech, S., Grees, A., Klein, R. (2009): ‚Last-Mile‘ preparation to a potential disaster - Interdisciplinary approach towards tsunami early warning and an evacuation information system for the coastal city of Padang, Indonesia. *Natural Hazards and the Earth System Science* 9, 1509-1528.

Renaud, F., Birkmann, J., Damm, M., Gallopin, G., (2009): Resilience of coupled social-ecological systems: thresholds, collapses and renewal, *Natural Hazards* 55(3), 749-763.

2008

Birkmann, J., Fernando, N. (2008): Measuring revealed and emergent vulnerabilities of coastal communities to tsunami in Sri Lanka. *DISASTERS* 32 (1), 82-104.

Birkmann, J., Buckle, P., Jaeger, J., Pelling, M., Setiadi, N., Garschagen, M., Fernando, N., Kropp, J. (2008): Extreme Events and Disasters: A Window of Opportunity for Change? Analysis of Changes, Formal and Informal Responses after Mega-Disasters. *Natural Hazards* 55 (3), 637-655.

Birkmann, J. (2008): Globaler Umweltwandel, Vulnerabilität und Disaster Resilienz – Erweiterung der raumplanerischen Perspektiven (Global Change, Vulnerability and Disaster Resilience – Advancement of the Perspective of Spatial Planning). *Raumforschung und Raumordnung*, 66 (1), 5-22.

2007

Birkmann, J. (2007): Risk and Vulnerability Indicators at Different Scales – Applicability, Usefulness and Policy Implications, *Environmental Hazards*, 7 (1), 20-31.

2003

Birkmann, J. (2003): Indicator-Based Monitoring and Controlling for Sustainable Development on the Regional Level – Experience from Germany. *Built Environment* 29 (4), 296-305.

Birkmann, J. (2003): Vom Monitoring zum Controlling Weiterentwicklung von Nachhaltigkeitsindikatoren für die Regionalplanung am Beispiel eines Monitoring- und Controllingsystems „Gewerbeflächen“ (From Monitoring to Controlling – Advancement of Sustainability Indicators for Regional Planning – Case Study Monitoring and Controlling Commercial Areas). *Raumforschung und Raumordnung* 61 (5), 357-370.

2001

Birkmann, J., Finke, L. (2001): Indicators for the Evaluation and Controlling of Sustainable Spatial Development in North Rhine-Westphalia (Indikatoren zur Beurteilung und Steuerung einer nachhaltigen Raumentwicklung in NRW). *Raumforschung und Raumordnung* 59 (4), 276-285.

1999

Birkmann, J. (1999): Indikatoren für eine nachhaltige Entwicklung - Eckpunkte eines Indikatorensystems für räumliche Planungsfragen auf kommunaler Ebene (Indicators for Sustainable Development – Key Elements of an Indicator System for Issues of Spatial Planning at Local Level). *Raumforschung und Raumordnung* 57 (2/3), 120-131.

Scientific articles in journals – non-peer-reviewed:

2019

Sauter, H., Birkmann, J. Schiller, J., Weidenbacher, S. (2019): Risikoanalysen und Risikovorsorge im Regionalen Kontext. *Informationen zur Raumentwicklung* 2019/46(4), 84-97.

2018

Birkmann, J., Sorg, L., Fleischhauer, M. (2018): Klimawandel: Szenarien zur zukünftigen Vulnerabilität. *RaumPlanung* 6/2018, 29-35.

2012

Bach, C., Birkmann, J. (2012): Kritische Infrastrukturen und Extremwetterereignisse. *Bevölkerungsschutz* 1/2012, 41-44.

2010

Glade, T., Felgentreff, C., Birkmann, J. (2010): Editorial for the special issue: extreme events and vulnerability in environment and society. *Natural Hazards* 55 (3), 571-576.

2009

Birkmann, J. (2009): Soziale Aspekte für den Bevölkerungsschutz fassbar machen. *Notfallvorsorge* 40(2), 16-19.

2008

Birkmann, J. (2008): Lernen aus "Natur"katastrophen, Die "letzte" Meile zur ersten machen. *Geographie und Schule* 30 (171), 11-19.

Birkmann, J., Krings, S. (2008): Die Vulnerabilität Kritischer Infrastrukturen gegenüber (möglichen) Auswirkungen des Klimawandels. *Notfallvorsorge* 39 (4), 25-30.

2007

Birkmann, J., Bogardi, J.(2007): Katastrophenforschung im Dienste der Vereinten Nationen – Herausforderungen, Erfahrungen und zukünftige Forschungsbedarfe aus Sicht von UNU-EHS (Disaster Research for the United Nations – Challenges, Experiences and Future Research Needs – the Perspective of UNU-EHS). *Notfallvorsorge*, 38 (1), 21-23.

Birkmann, J. (2007): Climate Change and Its Impact for Civil Protection, *Safety & Security International* 4.

2003

Birkmann, J. (2003): Monitoring von Biodiversität im Rahmen der SUP und nachhaltiger Raumentwicklung (Monitoring of Biodiversity within the Framework of Strategic Environmental Assessment (SUP) and Sustainable Spatial Development), *UVP-report* 17 (3-4), 164-170.

2001

Birkmann, J., Frausto Martinez, O. (2001): Indicators for Sustainable Development for the Regional and Local Level – Objectives, Opportunities and Problems, Case Studies from Germany and Mexico. *European Journal of Regional Development* 9, 23-30.

2000

Birkmann, J. (2000): Nachhaltige Raumentwicklung im dreidimensionalen Nebel (Sustainable Spatial Development in the Three-Dimensional Haze). *UVP-report* 14 (3), 164-167.

Birkmann, J., Finke, L., Strauss, K. (2000): Indikatoren für eine nachhaltige Raumentwicklung in NRW (Indicators for Sustainable Spatial Development in North Rhine-Westphalia), UVP-report 14 (5), 154-157.

Birkmann, J., Brückner, C., Strauss, K. (2000): Workshop: Indikatoren als Planungs- und Steuerungsinstrumente für eine nachhaltige Raumentwicklung in NRW (Workshop: Indicators as Planning and Controlling Instruments for Sustainable Spatial Development in North Rhine-Westphalia), UVP-report 14 (5), 258-260.

Book Chapters in Edited Collections (e.g. IPCC reports)

2022

Birkmann, J., E. Liwenga, R. Pandey, E. Boyd, R. Djalante, F. Gemenne, W. Leal Filho, P.F. Pinho, L. Stringer, Wrathall, D. (2022): Poverty, Livelihoods and Sustainable Development. In: Pörtner, H.-O., Roberts, D.C., Tignor, M., Poloczanska, E.S., Mintenbeck, K., Alegría, A., Craig, M., Langsdorf, S. Löschke, S., Möller, V., Okem, A., Rama. B. (Eds.) Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate. Cambridge University Press, Cambridge, UK and New York, NY, USA, 1171-1274. DOI: [doi:10.1017/9781009325844.010](https://doi.org/10.1017/9781009325844.010).

Pörtner, H.-O., Roberts, D.C., Adams, H., Adler, C., Aldunce, P., Ali, E., Ara Begum, R., Betts, R., Bezner Kerr, R., Biesbroek, R., Birkmann, J., Bowen, K., Castellanos, E., Cissé, G., Constable, A., Cramer, W., Dodman, D., Eriksen, S., Fischlin, A., Garschagen, M., Glavovic, B., Gilmore, E., Haasnoot, M., Harper, S., Hasegawa, T., Hayward, B., Hirabayashi, Y., Howden, M., Kalaba, K. Kiessling, W., Lasco, R., Lawrence, J., Lemos, M.F., Lempert, R., Ley, D., Lissner, T., Lluch-Cota, S., Loeschke, S., Lucatello, S. Luo, Y., Mackey, B., Maharaj, S., Mendez, C., Mintenbeck, K., Möller, V., Vale, M.M., Morecroft, M. D., Mukherji, A., Mycoo, M., Mustonen, T., Nalau, J., Okem, A., Ometto, J. P., Parmesan, C., Pelling, M., Pinho, P., Poloczanska, E., Racault, M.F., Reckien, D., Pereira, J., Revi, A., Rose, S., Sanchez-Rodriguez, S., Schipper, L., Schmidt, D., Schoeman, D., Shaw, R., Singh, C., Solecki, W., Stringer, L., Thomas, A., Totin, E., Trisos, C., van Aalst, M., Viner, D., Wairiu, M., Warren, R., Yanda, P., Zaiton-Ibrahim, Z. (2022): IPCC, 2022: Summary for Policymakers. In: Pörtner, H.-O., Roberts, D.C., Tignor, M., Poloczanska, E.S., Mintenbeck, K., Alegría, A., Craig, M., Langsdorf, S. Löschke, S., Möller, V., Okem, A., Rama. B. (Eds.) Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, UK and New York, NY, USA, 3-33. DOI: [10.1017/9781009325844.001](https://doi.org/10.1017/9781009325844.001)

Birkmann, J., Lauer, H. (2022): Climate change: Mitigation and adaptation. In: McGee, T.K., & Penning-Rowsell, E.C. (Eds.), Routledge Handbook of Environmental Hazards and Society, 1st ed., Routledge. DOI: doi.org/10.4324/9780367854584-13

2020

Jameshed, A., Birkmann, J., Mcmillian, J., Rana, I.A., Lauer, H. (2020): The Impact of Extreme Floods on Rural Communities: Evidence from Pakistan. In: Leal, W.F., Nagy, G., Borga, M., Chavez, D. and Magnuszewski, A. (Eds.), Climate Change, Hazards and Adaptation Options: Handling the impacts of a changing climate, Climate Change Management, 1st ed., Springer, Cham, 585-613. DOI: https://doi.org/10.1007/978-3-030-37425-9_30

2017

Birkmann, J., Sorg, L., Welle, T. (2017): Disaster Vulnerability. In: M. Pompella and N.A. Scordis (Eds.): The Palgrave Handbook of Unconventional Risk Transfer, 329-355. DOI: [10.1007/978-3-319-59297-8_11](https://doi.org/10.1007/978-3-319-59297-8_11)

Birkmann, J., Greiving, S., Serdeczny, O. (2017): Das Assessment von Vulnerabilitäten, Risiken und Unsicherheiten (assessment of vulnerability, risks and insecurities). In: Guy P. Brasseur, Jacob, D., Schuck-Zöller, S (Eds.): Klimawandel in Deutschland (Climate Change in Germany): 267-276. DOI: [10.1007/978-3-662-50397-3_26](https://doi.org/10.1007/978-3-662-50397-3_26)

2016

Kovats, S. Pelling, M. Koniordou, M. Welle, T., Birkmann, J. (2016): London Climate Change. In: Bartlett, S., Satterthwaite, D. (Eds.): Cities on a Finite Planet, Towards transformative responses to climate change. Routledge, London.

2015

Birkmann, J. and Blätgen, T. (2015): Bewertungsmaßstäbe neu denken – Raumplanung im Klimawandel. In: Knieling, J., Müller, B. (Eds.): Klimaanpassung in der Stadt- und Regionalentwicklung: Ansätze, Instrumente, Maßnahmen und Beispiele, oekom Verlag. München, 27-56.

2014

Oppenheimer, M. Campos, M. Warren, R. Birkmann, J. Luber, G., O'Neill, B. and K. Takahashi (2014): Emergent risks and key vulnerabilities. In: Field, C.B., Barros, V.R., Dokken, D.J., Mach, K.J., Mastrandrea, M.D., Bilir, T.E., Chatterjee, M., Ebi, K.L., Estrada, Y.O., Genova, R.C., Girma, B., Kissel, E.S., Levy, A.N., MacCracken, S., Mastrandrea, P.R., White, L.L. (Eds.) Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 1039-1099.

Field, C. Barros, V. Mach, K. Mastrandrea, M., van Aalst, M. Adger, N., Arent, D. Barnett, J., Betts, R. Bilir, E., Birkmann, J., Carmin, J. Chadee, D. Challinor, A., Chatterjee, M., Cramer, W. Davidson, D. Estrada, Y., Gattuso, J.-P., Hijioka, Y. Hoegh-Guldberg, O. Huang, H.-Q., Insarov, G. Jones, R., Kovats, S. Romero Lankao, P., Nymand Larsen, J., Losada, I. Marengo, J., McLean, R., Mearns, L., Mechler, R., Morton, J., Niang, I., Oki, T., Mukarugwiza Olwoch, J., Opondo, M., Poloczanska, E., Pörtner, H.-O., Hiza Redsteer, M., Reisinger, A., Revi, A., Schmidt, D., Shaw, R. Solecki, W., Stone, D. Stone, J., Strzepek, K., Suarez, A., Tschakert, P. Valentini, R., Vicuna, S., Villamizar, A., Vincent, K., Warren, R., White, L., Wilbanks, T., Wong, P., Yohe, G. (2014): Climate Change 2014: Impacts Adaptation & Vulnerability; Technical Summary of the IPCC Working Group II AR5 Report. Intergovernmental Panel on Climate Change Working Group II Fifth Assessment Report, 03/2014: chapter Technical Summary: 1-76; United Nations Intergovernmental Panel on Climate Change.

Birkmann, J., Pardoe, J. (2014): Climate Change Adaptation and Disaster Risk Reduction: Fundamentals, Synergies and Mismatches. Adapting to Climate Change, 01/2014: 41-56.

Field, C. B. Barros, V. R. Mach, K. J., Mastrandrea, M. D., van Aalst, M., Adger, W. N., Arent, D. J., Barnett, J., Betts, R., Bilir, T. E., Birkmann, J., Carmin, J., Chadee, D. D., Challinor, A. J., Chatterjee, M., Cramer, W., Davidson, D. J., Estrada, Y. O., Gattuso, J. P., Hijioka, Y. Hoegh-Guldberg, O., Huang, H. Q., Insarov, G. E., Jones, R. N., Kovats, R. S., Romero Lankao, P., Larsen, J. N., Losada, I. J., Marengo, J. A., McLean, R. F., Mearns, L. O., Mechler, R. Morton, J. F., Niang, I. Oki, T., Olwoch, J. M., Opondo, M., Poloczanska, E. S., Pörtner, H. O., Redsteer, M. H., Reisinger, A. Revi, A. Schmidt, D. N., Shaw, M. R., Solecki, W., Stone, D. A., Stone, J. M. R., Strzepek, K. M., Suarez, A. G., Tschakert, P., Valentini, R., Vicuña, S., Villamizar, A., Vincent, K. E., Warren, R., White, L. L., Wilbanks, T. J. Wong, P. P., Yohe, G. W. (2014): IPCC AR5 Working Group II Technical summary. 01/2014: 35-94; Cambridge University Press.

Welle, T. Depietri, Y., Angignard, M., Birkmann, J., Renaud, F., Greiving, S. (2014): Chapter 5 - Vulnerability Assessment to Heat Waves, Floods, and Earthquakes Using the MOVE Framework: Test Case Cologne, Germany. In: Birkmann, J., Kienberger, S., Alexander, D. E. (Eds.): Assessment of Vulnerability to Natural Hazards, 01/2014, 91-124, Elsevier.

2013

Birkmann, J., Qaiem Maqami, N., Yu, Q., Carpenter, S., Lopez, A., Adu-Gyamfi, A., Shi, G., Garschagen, M., Pelling, M. (2013): Urban Development, climate change and risk management. In: Pelling, M., Blackburn, S. (Eds.): Megacities and the Coast: Risk, Resilience and Transformation, Routledge, New York, 173-199.

Birkmann, J., Setiadi, N. J., Fiedler, G. (2013): A Culture of Preparedness – the Last Mile, case study Tsunami Risk – Padang City, Indonesia. In: Krueger, F., Orłowski, B. (Eds.): Cultures and Disasters – Understanding Cultural Framings in Disaster Risk Reduction, Routledge, New York.

Birkmann, J. (2013): Exposure to Natural Hazards. In: Bobrowsky, P. (Ed.): Encyclopedia of Natural Hazards, Springer, Dordrecht, Heidelberg, New York, London, 305.

Birkmann, J. (2013): Risk. In: Bobrowsky, P. (Ed.): *Encyclopedia of Natural Hazards*, Springer, Dordrecht, Heidelberg, New York, London, 856.

Birkmann, J., Fleischhauer, M. (2013): Vulnerabilität von Raumnutzungen, Raumfunktionen und Raumstrukturen (Vulnerability of land-use, land-use functions and spatial structures): In: Birkmann, J., Vollmer, M., Schanze, J. (Eds.): *Raumplanung im Klimawandel. Forschungs- und Sitzungsberichte der Akademie für Raumforschung und Raumplanung*, Hannover

Birkmann, J., Vollmer, M., Schanze, J., Büscher, D., Kufeld, W. (2013): Schlussfolgerungen: Ausblick und Handlungsempfehlungen für die räumliche Planung (Conclusions: Outlook and recommendations for spatial planning). In: Birkmann, J., Vollmer, M., Schanze, J. (Eds.): *Raumplanung im Klimawandel. Forschungs- und Sitzungsberichte der Akademie für Raumforschung und Raumplanung*, Hannover

Greiving, S., Birkmann, J., Diehl, J. (2013): Klimaanpassung: Handlungsfelder für die Raumentwicklung – vertiefend diskutiert am Beispiel Hochwasserrisikomanagement (Climate change adaptation: action fields for spatial planning – discussed in detail based on the case study of flood risk management): In: Baumgart, S., Terfrüchte, T. (Eds.): *Zukunft der Regionalplanung in Nordrhein-Westfalen*, Akademie für Raumforschung und Landesplanung. Arbeitsmaterial, Hannover

2012

Birkmann, J., Garschagen, M., Von Van, T., Nguyen Thanh, B. (2012): Vulnerability, Coping and Adaptation to Water Related Hazards in the Vietnamese Mekong Delta. In: Renaud, F.G., Kuenzer, C. (Eds.): *The Mekong Delta System: Interdisciplinary Analyses of a River Delta*, Springer, New York: 245-289.

Cardona, O.D., van Aalst, M.K., Birkmann, J., Fordham, M., McGregor, G., Perez, R., Pulwarty, R.S. Schipper, E.L.F., Sinh, B.T. (2012): Determinants of risk: exposure and vulnerability. In: Field, C.B., Barros, T.F. Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor, and P.M. Midgley (Eds.): *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change (IPCC)*: Cambridge University Press, Cambridge, UK, and New York, NY, USA, 65-108.

2011

Birkmann, J. (2011): Regulation and Coupling of Society and Nature in the Context of Natural Hazards – Different theoretical approaches and conceptual frameworks and their applicability to analyse social-ecological crises phenomena, in: Brauch, H.G., Oswald Spring, U., Kameri-Mbote, P., Mesjasz, C., Grin, J., Chourou, B., Dunay, P., Birkmann, J. (Eds.): *Coping with Global Environmental Change, Disasters and Security Threats, Challenges, Vulnerabilities and Risks*, Springer, 1103-1127.

Birkmann, J., Von Teichman, K., Welle, T., Gonzales, M., Olabarrieta, M. (2011): O risco nao percebido para as zonas costeiras da Europa: Os tsunamis e a vulnerabilidade de Cadis, Espanha. In: *Centro des Estudos Sociais (Eds.): Revista Critica – De Ciencias Sociais No.93*, Coimbra, Portugal: 129-165.

Werning, R., Birkmann, J., Rumberg, M. (2011): Zusammenfassende Thesen und Vorschläge. In: Pohl, J., Zehetmair, S. (Eds.): *Risikomanagement als Handlungsfeld in der Raumplanung. Akademie für Raumforschung und Landesplanung. Arbeitsmaterial Nr. 357*, Hannover, 81-92.

Birkmann, J. (2011): Hochwasserrisikomanagement im Regierungsbezirk Köln – Analyse der Aussagen zum Hochwasserschutz im Regionalplan. In: Pohl, J., Zehetmair, S. (Eds.): *Risikomanagement als Handlungsfeld in der Raumplanung. Akademie für Raumforschung und Landesplanung, Arbeitsmaterial Nr. 357*, Hannover, 99-104.

2010

Birkmann, J. (2010): Global Disaster Response and Reconstruction: Stabilization versus Destabilization – Challenges of the Global Disaster Response to Reduce Vulnerability and Risk Following Disasters, in: Dölemeyer, A., Zimmer, J., Tetzlaff, G. (Eds.): *Risk and Planet Earth – Vulnerability, Natural Hazards, Integrated Adaptation Strategies*, Schweizerbart, 43-55.

Fernando, N., Warner, K., Birkmann, J. (2010): Migration and Natural Hazards. Is Relocation a Secondary Disaster or an Opportunity for Vulnerability Reduction?, in: Afifi, T., Jäger, J. (Eds.): *Environment, Forced Migration and Social Vulnerability*, Springer, 145-156.

2009

Bogardi, J., Birkmann, J., Gebert, N., Setiadi, N. (2009): Security Challenge: Preparing for Not-Experienced, Low-Frequency, Extreme Natural Hazards. In: Brauch, H.G., Oswald Spring, Ú., Grin, J., Mesjasz, C., Kameri-Mbote, P., Behera, N.C., Chourou, B., Krummenacher, H. (Eds.): Facing Global Environmental Change - Environmental, Human, Energy, Food, Health and Water Security Concepts. Springer: 283-293. (peer-reviewed).

2006

Birkmann, J. (2006): Monitoring im Rahmen der Neuausrichtung planerischer Steuerung in NRW (Monitoring within the Adjustment of Planning Regulations in North Rhine-Westphalia). In: Birkmann, J.; Finke, L. (Eds.): Novellierung des Landesplanungsrechts in Nordrhein-Westfalen, ARL-Arbeitsmaterial 327, 26-35.

Birkmann, J. (2006): Measuring Vulnerability to Promote Disaster-Resilient Societies: Conceptual Frameworks and Definitions. In: Birkmann, J. (Eds.): Measuring Vulnerability to Natural Hazards - Towards Disaster Resilient Societies, Tokyo, New York, Paris, United Nations University Press, 9-54.

Birkmann, J. (2006): Indicators and Criteria for Measuring Vulnerability: Theoretical Bases and Requirements. In: Birkmann, J. (Ed.): Measuring Vulnerability to Natural Hazards - Towards Disaster Resilient Societies, Tokyo, New York, Paris; United Nations University Press, 55-77.

Birkmann, J. (2006): Conclusions and recommendations, in: Birkmann, J. (Ed.): Measuring Vulnerability to Natural Hazards - Towards Disaster Resilient Societies, Tokyo, New York, Paris United Nations University Press, 432-447.

2004

Bogardi, J. Birkmann, J. (2004): Vulnerability Assessment: the First Step Towards Sustainable Risk Reduction. In: Malzahn, D.; Plapp, T. (Eds.): Disasters and Society – From Hazard Assessment to Risk Reduction, Logos Verlag, Berlin, 75-82.

Monographs:

2007

Birkmann, J., Fernando, N., Hettige, S., Amarasinghe, S., Jayasingam, T., Paranagama, D., Nandana, M.D.A., Nassel, M., Voigt, S., Grote, U., Engel, S., Schraven, B., Wolferts, J. (2007): Rapid Vulnerability Assessment in Sri Lanka – Post-Tsunami Study of Two Sri Lankan Cities: Galle and Batticaloa, UNU-SOURCE, Publication Series of UNU-EHS, No. 7/2007, Bonn.

2006

Birkmann, J., Wisner, B. (2006): Measuring the Un-Measurable – The Challenge of Vulnerability, UNU-SOURCE, Publication Series of UNU-EHS, No. 5/2006, Bonn.

2004

Birkmann, J. (2004): Monitoring und Controlling für nachhaltige Raumentwicklung – Indikatoren als Werkzeuge im Planungsprozess (Monitoring and Controlling for Sustainable Spatial Development – Indicators as Tools in Planning Processes), Dortmunder Vertrieb für Bau- und Planungsliteratur, Dortmund. (Dissertation)

2001

Brückner, C., Finke, L. Birkmann, J., Strauss, K. (2001): Nachhaltigkeitsindikatoren – Wegweiser für die räumliche Entwicklung in Nordrhein-Westfalen (Sustainability-Indicators – Guidepost for Spatial Development in North Rhine-Westphalia), Schriftenreihe des Instituts für Landes- und Stadtentwicklungsforschung des Landes Nordrhein-Westfalen (ILS-Schriften) Nr. 175, Dortmund.

1999

Birkmann, J., Koitka, H., Kreibich, V., Lienenkamp, R. (1999): Indikatoren für eine nachhaltige Raumentwicklung - Methoden und Konzepte der Indikatorenforschung (Indicators for Sustainable Spatial Development – Methods and Concepts of Indicator Research). In: Institut für Raumplanung (Eds.), Dortmunder Beiträge der Raumplanung 96, Dortmund

Edited Books:

2013

Birkmann, J. (2013) (Ed.): Measuring Vulnerability to Natural Hazards - Towards Disaster Resilient Societies, Tokyo, Second Edition, New York, Paris; United Nations University Press, 500 pages.

Birkmann, J., Vollmer, M., Schanze, J. (2013) (Eds.): Raumentwicklung im Klimawandel: Herausforderungen für die räumliche Planung. Forschungs- und Sitzungsberichte der Akademie für Raumforschung und Landesplanung, No. 2; Hannover, 231 pages.

2010

Brauch, G., Oswald-Spring, U., Mesjasz, C., Kameri-Mbote, P., Chourouc, B., Dunay, P., Birkmann, J. (2010) (Eds.): Coping with Global Environmental Change, Disasters and Security – Threats, Challenges, Vulnerabilities and Risks, Springer, 1816 pages.

2006

Birkmann, J. (2006) (Ed.): Measuring Vulnerability to Natural Hazards - Towards Disaster Resilient Societies, Tokyo, New York, Paris; United Nations University Press, 450 pages.

1997

Birkmann, J., Bonhoff, C., Daum, W., Gleisenstein, J. (Eds.) (1997): Nachhaltigkeit und Hochschulentwicklung – Projekte auf dem Weg der Agenda 21, (Sustainability and University Development – Projects within the Scope of the Agenda 21); projekt verlag, Dortmund/Bochum.

Other publications, e.g. UN reports, conference proceedings:

2020

Birkmann, J., Seidemann, D., Schmitz-Veltin, A., Wilkens, C., Kiwitt, T., Mandel, K., Torns, F., Kuckes, A., Warner, B. (with contributions from Hager, G., Hein, E., Malburg-Graf, B., Weiland, U.) (2020): Neue Impulse für die Raumentwicklung in Baden-Württemberg; Positionierung der Landesarbeitsgemeinschaft Baden-Württemberg – der ARL. Stuttgart/Hannover.

2018

Birkmann, J. (2018): Resilience and Adaptive Urban Governance to Enhance Urban and Spatial Planning – fundamentals, frameworks, principles. Background Study for the GIZ (Gesellschaft für Internationale Zusammenarbeit), German – Thai Cooperation, Eschborn/Bangkok.

2013

Anwar, H. Z., Gebert, N., Mueck, M., Muhari, A., Post, J., Stein, E., Wegscheider, S., Birkmann, J., Harjono, H., Riedlinger, T., Strunz, G. (2013): Technical Guide Line for Tsunami Risk Assessment in Indonesia: Scientific Proposal for Practitioners and End Users. Indonesia – German Working Group on Tsunami Risk Assessment. 01/2011.

Bach, C., Gupta, A.K., Nair, S.S., Birkmann, J. (2013): Critical Infrastructures and Disaster Risk Reduction; In: Ministry of Home Affairs (India), National Institute of Disaster Management (India) and Deutsche Gesellschaft für Internationale Zusammenarbeit (Eds.); New Delhi.

2012

Birkmann, J., Franck, E., Frommer, B., Hensold, C., Hörmann, F., Jacoby, C., Klee, A., Klein, R., Kübler, C., Kufeld, W., Leitz, R., Merz, B., Müller, P., Schütze, B., Schulz, H.D., Steuer, P., Stiglbauer, C., Stock, M., Wagner, S. (2012): „Zugspitz-Thesen“: Klimawandel, Energiewende und Raumordnung. In: Akademie für Raumforschung und Landesplanung (Eds.): Positionspapier Nr. 90, Hannover.

Welle, T., Birkmann, J., Rhyner, J., Witting, M., Wolfertz, J. (2012): WorldRiskIndex 2012: Concept and Results. In: Alliance Development Works (Eds.): WorldRiskReport, Berlin: 11-26.

Witting, M., Birkmann, J. (2012): Detecting Disaster Root Causes – A Framework and an Analytic Tool for Practitioners; in: Deutsches Komitee für Katastrophenvorsorge e.V.(Eds.): DKKV Publication Series 46, Bonn.

2011

Birkmann, J., Krings, S., Vollmer, M., Wolfertz, J., Welle, T., Kühling, W., Meisel, K., Wurm, M., Taubenböck, H., Gähler, M., Zwenzner, H., Roth, A., Voigt, S., Dech, S. (2011): Indikatoren zur Abschätzung von Vulnerabilität und Bewältigungspotenzialen – am Beispiel von wasserbezogenen Naturgefahren in urbanen Räumen; in: Bundesamt für Bevölkerungsschutz und Katastrophenhilfe, UNU-EHS (Eds.): Forschung im Bevölkerungsschutz, Nr. 13, Bonn, 588 pages.

Birkmann, J., Krings, S., Vollmer, M., Wolfertz, J., Welle, T., Kühling, W., Meisel, K., Wurm, M., Taubenböck, H., Gähler, M., Zwenzner, H., Roth, A., Voigt, S., Dech, S. (2011): Abschätzung der Verwundbarkeit gegenüber Hochwasserereignissen auf kommunaler Ebene. In: Bundesamt für Bevölkerungsschutz und Katastrophenhilfe (Eds.): Praxis im Bevölkerungsschutz, Bonn.

Birkmann, J., Change Seng, D., Suarez, DC (2011): Adaptive Disaster Risk Reduction in the light of Climate Change. In: Deutsches Komitee für Katastrophenvorsorge e.V.(Eds.): DKKV Publication Series 43, Bonn.

Birkmann, J., Welle, T., Krause, D., Wolfertz, J., Suarez, D. C., Setiadi, N. (2011): WorldRiskIndex: Concept and Results. In: Alliance Development Works (Eds.): WorldRiskReport 2011. Berlin: 13-42.

Birkmann, J., Krause, D. (2011): Refining the Agenda – Humanitarian Assistance in Times of Climate Change. In: Deutsches Komitee für Katastrophenvorsorge e.V. (Eds.): DKKV Publication Series 44, Bonn.

2010

Birkmann, J., Böhm, H. R., Büscher, D., Fleischhauer, M., Frommer, B., Janssen, G., Overbeck, G., Schanze, J., Schlipf, S., Stock, M., Vollmer, M. (2010): Planungs- und Steuerungsinstrumente zum Umgang mit dem Klimawandel, in: Berlin-Brandenburgische Akademie der Wissenschaften – Interdisziplinäre Arbeitsgruppe „Globaler Wandel – Regionale Entwicklung“, Diskussionspapier 8, 07/2010, Berlin.

Birkmann, J., Bach, C. Guhl, S., Witting, M., Welle, T., Schmude, M. (2010): State of the Art der Forschung zur Verwundbarkeit Kritischer Infrastrukturen am Beispiel Strom/Stromausfall. In: Schriftenreihe Forschungsforum Öffentliche Sicherheit, Berlin.

2009

Schlipf, S., Birkmann, J. (2009): Neue Strategien und Handlungsfelder zur Anpassung an den Klimawandel durch räumliche Planung auf Regionalebene. In: Deutsches Komitee für Katastrophenvorsorge sowie Deutscher Wetterdienst (Eds.): Herausforderungen für die Katastrophenvorsorge im 21. Jahrhundert, Offenbach/Bonn.

Birkmann, J., Böhm, H.R., Büscher, D., Daschkeit, A., Fleischhauer, M., Frommer, B., Jacoby, C., Kiwitt, T., Knieling, J., Köhler, S., Kufeld, W., Overbeck, G., Priebes, A., Schanze, J., Schlipf, S., Sommerfeldt, P., Stock, M., Tetzlaff, G., Vallée, D. (2009): Klimawandel als Aufgabe der Regionalplanung. In: Akademie für Raumforschung und Landesplanung (Eds.): ARL - Positionspapier Nr. 81, Hannover.

2008

Birkmann, J. (2008): Assessing Vulnerability Before, During and After Natural Disaster in Fragile Regions – Case Study of the 2004 Indian Ocean Tsunami in Sri Lanka and Indonesia. UNU-WIDER Research Paper No. 2008/50, Helsinki.
(peer-reviewed).

Birkmann, J., Setiadi, N., Gebert, N. (2008): Socio-Economic Vulnerability Assessment at the Local Level in Context of Tsunami Early Warning and Evacuation Planning in the City of Padang, West Sumatra, Paper for International Conference on Tsunami Warning, November 12-14, 2008, Nusa Dua, Indonesia.

2007

Birkmann, J. (2007): Tsunami: Socio-Economic Insecurities – direct and indirect impacts & the post-tsunami process, Special Focus on: Indonesia and Sri Lanka, Background Paper for the World Economic and Social Survey of UN/DESA, New York.

Birkmann, J., Dech, S., Hirzinger, G., Klein, R., Klüpfel, H., Lehmann, F., Mott, C., Nagel, K., Schlurmann, T., Setiadi, N., Siegert, F., Strunz, G. (2007): Numerical Last-Mile Tsunami Early Warning and Evacuation Information System, Geotechnologien: Science Report, No. 10, Potsdam, 62-74.

Birkmann, J., Setiadi, N., Hoffmann, S., Esswein, K., Burchi, F. (2007): Disaster Risk Reduction and Sustainable Development in Tsunami Affected Countries. UNU-EHS and DAAD Special Seminar, UNU-EHS Working Paper No. 3, Bonn.

Post, J., Strunz, G., Birkmann, J., Setiadi, N., Anwar, H., Harjono, H., (2007): Risk and Vulnerability Assessment to Tsunami and Coastal Hazards in Indonesia: Conceptual Framework and Indicator Development. Paper for the 'International Symposium on Disasters in Indonesia – Problems & Solutions', Padang, Indonesia 26-28 July 2007, Padang.

Ritter, E.-H., Birkmann, J., Fleischhauer, M., Güthler, A., Knieling, J., Overbeck, G., Selke, W., Stock, M. (2007): European strategies of adaptation to climate change – The spatial planning and spatial development policy perspective. In: Academy for Spatial Research and Planning, Position Paper of the ARL Nr. 73, Hannover.

2006

Birkmann, J., Grote, U., Engel, S., Villagran, J. C. (2006): More Than a Year After: the Impacts of the Tsunami in Sri Lanka, ZEF-NEWS, No. 18, 2/2006, 3.

2005

Birkmann, J. (2005): Measuring Vulnerability – Expert Workshop in Kobe, UNU-EHS Working Paper No. 1, Bonn.

Birkmann, J. (2005): Danger Need Not Spell Disaster – But How Vulnerable are We? Research Brief of the United Nations University, Tokyo, New York, Bonn.

Birkmann, J. (2005): Methods of Assessing Vulnerability, SETRIC-Newsletter (Security and Trust in Cities), 3, November 2005, 3-5.

2004

Birkmann, J. (2004): Flächeninanspruchnahme: Indikatoren und Nutzungsstrukturen (Consumption of Open Space: Indicators and Land Use Patterns), in: Landesamt für Datenverarbeitung und Statistik NRW (Eds.): Kongress zu den umweltökonomischen Gesamtrechnungen der Länder, 23. Juni 2004, Tagungsband, Düsseldorf, 155-186.

1998

Birkmann, J., Bonhoff, C., Würstlin, W. (1998): Zukunftsbeständige Entwicklung durch Agenda 21-Prozesse und Umweltpläne (Sustainable Development through Local Agenda 21 Processes and Environmental Plans), in: Institut für Raumplanung Universität Dortmund (Eds.), Arbeitspapiere 157, Dortmund.