

# GERICS Books and Book Chapters (2021-2024)

## 2024

- Bernadini, C.** (2024): Climate Change and Human Systems. Innovative Adaptation Services as a Soft-Resilience Strategy to Tackle Emerging Risks. *SpringerBriefs in Applied Sciences and Technology, Springer Cham*, XV, 143 pages, DOI: 10.1007/978-3-031-57169-5
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- Bouwer, L.M., Trümper, S.** (2024): Zunahme der Katastrophen durch den Klimawandel? In: Max, M. (ed) Resiliente Infrastrukturen: Perspektiven und Handlungsempfehlungen für ein vernetztes Resilienzmanagement. *Erich Schmidt Verlag, Berlin*, 84-101, ISBN: 978-3-503-23842-2
- Brasseur, G.P., **Jacob, D., Schuck-Zöller, S.** (2024): Klimawandel in Deutschland: Entwicklung, Folgen, Risiken und Perspektiven. *Springer Spektrum Berlin, Heidelberg*, XX, 527 pages, DOI: 10.1007/978-3-662-66696-8
- Groth, M., Bender, S., Olfert, A., Schauer, I, Viktor, E.** (2024): Kaskadeneffekte und kritische Infrastrukturen im Klimawandel. In: Brasseur, G.P. et al. (eds) Klimawandel in Deutschland. *Springer Spektrum, Berlin, Heidelberg*, 297-310, DOI, /10.1007/978-3-662-66696-8\_23
- Kotova, L.** (2024): Klimawandel und seine möglichen Auswirkungen auf Rheinland-Pfalz. In: Generaldirektion Kulturelles Erbe Rheinland-Pfalz, Direktion Landesdenkmalpflege u. Institut für Steinkonservierung e.V. (eds) Klimawandel und setzungsbedingte Bauwerksschäden, *Denkmalpflege in Rheinland-Pfalz*, 7, *Michael Imhof Verlag*, 18-23., ISBN: 978-3-7319-1416-7
- Kotova, L.** (2024): Regionale Relevanz von Extremwetterereignissen und Naturkatastrophen. In: Pollmer, U. (ed) KERES - Kulturgüter vor Extremklimaereignissen schützen, *Fraunhofer IRB | Verlag*, 09-22, ISBN: 978-3-7388-0864-3
- Rechid, D., Breil, M., Jacob, D., Kottmeier, C., Petersen, J., Pfeifer, S., Teichmann, C.** (2024): Regionale Klimamodellierung. In: Brasseur, G.P. et al. (eds) Klimawandel in Deutschland. *Springer Spektrum, Berlin, Heidelberg*, 31-45, DOI, /10.1007/978-3-662-66696-8\_4
- Schmidt, H., Eyring, V., Latif, M., Marotzke, J., **Rechid, D.**, Sausen, R. (2024): Globale Modellierung des Klimawandels. In: Brasseur, G.P. et al. (eds) Klimawandel in Deutschland. *Springer Spektrum, Berlin, Heidelberg*, 7-18, DOI: [https://doi.org/10.1007/978-3-662-66696-8\\_2](https://doi.org/10.1007/978-3-662-66696-8_2)
- Schuck-Zöller, S., Abeling, T., Bender, S., Groth, M., Keup-Thiel, E., Molitor, H., Sander, K., Seipold, P., Vilsmaier, U.** (2024): Klimakommunikation und Klimaschutzservice. In: Brasseur, G.P. et al. (eds) Klimawandel in Deutschland. *Springer Spektrum, Berlin, Heidelberg*, 491-505, DOI, /10.1007/978-3-662-66696-8\_38

## 2023

- Gonçalves Gresse, E., Schrum, C., Hanf, F.S., Jantke, K., Pein, J., Hawxwell, T., **Hoffmann, P.**, **Guillén Bolaños, T.**, **Langendijk, G.S.**, Schneider, U.A., **Huang-Lachmann, J.T.**, Neuburger, M., **Reveco Umaña, C.**, Seiffert, R., Wickel, M., Sillmann, J., Scheffran, J., Held, H. (2023): Toward a Sustainable Adaptation Plausibility Framework. In: Engels, A. et al. (eds) Hamburg Climate Futures Outlook: The plausibility of a 1.5°C limit to global warming - social drivers and physical processes, 53-65, DOI: 10.25592/uhhfdm.11230
- Jacob, D.**, **Görl, K.**, **Wolff, M.** (2023): Chapter 13 - Adaptation of society to climate change. In: Letcher, T.M. (ed) Living with Climate Change. *Elsevier*, 249-262, DOI: 10.1016/B978-0-443-18515-1.00027-7
- Knutzen, F.**, **El Zohbi, J.**, **Jacob, D.** (2023): Der Klimawandel macht auch vor Neuwied nicht Halt. In: 50 Jahre Kreiswaldbauverein Neuwied e.V., *Festschrift, Kreiswaldbauverein Neuwied e.V.*, 78-81
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## 2022

- Bals, S., **Groth, M.**, Schomerus, T. (2022): Towards an effective EU climate disclosure strategy? An ex-ante evaluation and derivation of an analytical framework, of criteria and indicators regarding the EU Commission's 2018 Action Plan on Financing Sustainable Growth and the 2018 Non-Financial Reporting Directive. *Leuphana Schriftenreihe Nachhaltigkeit und Recht*, 27, ISSN: 2195-3317
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- Bouwer, L.M.**, Dransch, D., Ruhnke, R., **Rechid, R.**, Frickenhaus, S., Greinert, J. (2022): Integrating Data Science and Earth Science - Challenges and Solutions. *SpringerBriefs in Earth System Sciences, Springer Cham*, XIV, 148 pages, DOI: 10.1007/978-3-030-99546-1
- Bouwer, L.M.**, **Rechid, D.**, Fritzsche, B., Henkel, D., Kalbacher, T., Köckeritz, W., Ruhnke, R. (2022): Evaluating the Success of the Digital Earth Project. In: **Bouwer, L.M.** et al (eds) Integrating Data Science and Earth Science - Challenges and Solutions. *SpringerBriefs in Earth System Sciences, Springer Cham*, 131-143, DOI: 10.1007/978-3-030-99546-1\_8
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- Kovalevsky, D.V.** (2022): A Climate-Economy Model with Endogenous Carbon Intensity. In: Machado, T., J.A., Volchenkov, D. (eds) Mathematical Topics on Modelling Complex Systems. *Nonlinear Physical Science. Springer, Singapore*, 71-86, DOI: 0.1007/978-981-16-4169-5\_5
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- Máñez Costa, M., Kovalevsky, D.V.** (2022): Weather and Climate Services to Support a Risk-Sharing Mechanism for Adaptation of the Agricultural Sector. A Theoretical Example for Drought-Prone Areas. In: Kondrup, C. et al. (eds) Climate Adaptation Modelling. *Springer Climate. Springer, Cham*, 115-120, DOI: 10.1007/978-3-030-86211-4\_14
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## 2021

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- Kovalewski, D.**, Bashmachnikov I.L. (2021): Nonlinear Dynamics of Deep Open-Ocean Convection: An Analytical Approach. In: Volchenkov, D. (eds) The Many Facets of Complexity Science., *Nonlinear Physical Science. Springer, Singapore*, 161-183, DOI: 10.1007/978-981-16-2853-5\_10
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