

Publications:

Peer reviewed:

In revision/ under review:

Rinder, T., von Hagke, C. (under review) Carbon dioxide removal through enhanced weathering of basalt on agricultural land – Assessing the potential in Austria

Published

26. Ortner, H., **von Hagke, C.**, Sommaruga, A., Mock, S., Mosar, J., Hinsch, R., Beidinger, A. (accepted): The northern Deformation Front of the European Alps. In Bellahsen, N. & Rosenberg C. (eds.) The Alpine Chain, ISTE-Wiley editions
25. Luijendijk, E., Winter, T., Köhler, S., Ferguson, G. **von Hagke, C.**, Scibek, J. (2020): Using thermal springs to quantify deep groundwater flow and its thermal footprint in the Alps and North American orogens, *Geophysical Research Letters*, <https://doi.org/10.1029/2020GL090134>
24. Morley, C.K., Jitmahantakul, S., **von Hagke, C.**, Warren, J., and Linares, F., (2020): Development of an intra-carbonate detachment during thrusting: the variable influence of pressure solution on deformation style, Khao Khwang Fold and Thrust Belt, Thailand, *Geosphere*
23. Mock, S., **von Hagke, C.**, Schlunegger, F., Dunkl, I., Herwegh, M. (2020): From vertical to horizontal tectonics during late Alpine orogeny, *SolidEarth*
22. Kettermann, M., Smeraglia, L., Morley, C., **von Hagke, C.**, Tanner, D. (2020): Fault sealing. In: Tanner, D., Brandes, C. (eds.) *Understanding Faults - Detecting, Dating, and Modeling*, pp. 283-350
21. Weismüller, C., Urai, J.L., Kettermann, M., **von Hagke, C.**, Reicherter, K. (2019): Structure of massively dilatant faults in Iceland: lessons learned from high resolution UAV data, *SolidEarth* 10, 1757-1784
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18. Grobe, A., **von Hagke, C.**, Littke, R., Dunkl, I., Wübbeler, F.; Muchez, P.; Urai, J.L., (2019): Evolution of Oman's Mesozoic passive continental margin under the obducting Semail Ophiolite - a basin modeling study of pressure, temperature and tectonically expelled fluids in the Jebel Akhdar, Oman, *Solid Earth* 10, pp.149-175
17. **von Hagke, C.**, Wellmann, J. F., Urai, J.L. (2019): From Google Earth to 3-D Geology Problem 1: Understanding structures and generating geological maps using Google Earth, *Developments in Structural Geology and Tectonics* 5, pp.181-188
16. Wellmann, J. F. Schaaf, A., de la Varga, M., **von Hagke, C.**, (2019), From GoogleEarth to 3-D Geology Problem 2: Seeing below the surface of the Digital Earth, *Developments in Structural Geology and Tectonics* 5, pp.189-204
15. Moosdorf, N., Cohen, S., **von Hagke, C.** (2018): A global erosivity index to represent sediment production potential of different rock types, *Applied Geography* 101, pp.36-44
14. **von Hagke, C.**, Bamberg, B., Virgo, S., Urai, J.L. (2018): Outcrop-scale tomography: insights into the 3D structure of multiphase boudins. *Journal of Structural Geology* 115, 311-317,

13. Grobe, A., Virgo, S., **von Hagke, C.**, Urai, J.L., Littke, R. (2018): Multiphase structural evolution of a continental margin during obduction orogeny: insights from the Jebel Akhdar Dome, Oman Mountains, *Tectonics* 37. doi: 10.1002/2016TC004442
12. Virgo, S., **von Hagke, C.**, Urai, J.L. (2018): Multiphase Boudinage: a case study of Amphibolites in Marble in the Naxos Migmatite core, *Solid Earth* 9, pp. 91-113
11. **von Hagke, C.**, Malz, A. (2018) Triangle zones – Geometry, kinematics, mechanics, and the need for appreciation of uncertainties, *Earth Science Reviews* 177, pp. 24-42
10. Morley, C.K., **von Hagke, C.**, Hansberry, R., Collins, A., Kanitpanyacharoen, W., and King, R. (2018) Review of major shale-dominated detachment and thrust characteristics in the diagenetic zone: Part II, rock mechanics and microscopic scale, *Earth Science Reviews* 176, pp. 19-50
9. Morley, C.K., **von Hagke, C.**, Hansberry, R., Collins, A., Kanitpanyacharoen, W., and King, R. (2017): Review of major shale-dominated detachment and thrust characteristics in the diagenetic zone: Part I, meso- and macroscopic scale, *Earth Science Reviews* 173, pp. 168-228
8. Ganti, V., **von Hagke, C.**, Scherler, D., Lamb, M.P., Fischer, W., and Avouac, J.-P., (2016): Timescale bias in erosion rates of glaciated landscapes, *Science Advances*, vol. 2, e1600204, doi:10.1126/sciadv.1600204. – *first two authors contributed equally to this work*
7. **von Hagke, C.**, Philippon, M., Avouac, J.-P., Gurnis, M. (2016): Origin and time evolution of subduction polarity reversal from plate kinematics of Southeast Asia, *Geology* v. 44, p. 659-662
6. Kettermann, M., **von Hagke, C.**, van Gent, H., Grützner, C., Urai, J. (2016): Dilatant normal faulting in jointed cohesive rocks: a physical model study, *Solid Earth*, 6, pp. 1–30
5. Fernandez-Blanco, D., Philippon, M., **von Hagke, C.** (2016), Structure and kinematics of the Great Sumatran Fault in North Sumatra (Indonesia), *Tectonophysics*, 693, pp.453-464
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3. Stollhofen, H., Stanistreet, I., **von Hagke, C.**, Nguno, A. (2014): Pliocene-Pleistocene climate change, sea level and uplift history recorded by the Horingbaai fan-delta, NW Namibia, *Sedimentary Geology* 309, pp. 15-32
2. **von Hagke, C.**, Onno Oncken, Sergey Evseev (2014): Critical taper analysis reveals lithological control of variations in detachment strength - an analysis of the Alpine basal detachment (Swiss Alps). *Geochemistry, Geophysics, Geosystems* 15(1), pp. 176-191.
1. **von Hagke, C.**, Cederbom, C.E., Oncken, O., Stöckli, D.F., Rahn, M.K., Schlunegger, F. (2012) Linking the Northern Alps with their foreland: the latest uplift and erosion history resolved by low temperature thermochronology, *Tectonics* 31(5), TC5010

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- Fernández-Blanco, D., Philippon, M., **von Hagke, C.**, (2015): Present-day stress orientations in the Great Sumatran Fault in North Sumatra, *Geotectonic Research* 97, pp. 30-33
- Grobe, A., **von Hagke, C.**, Nokar, K., Wuebbeler, F., Littke, R., Urai, J.L. (2015): Understanding obduction dynamics – structural and thermal history of the Oman Mountains, *Geotectonic Research* 97, pp. 40-43
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Edited Special Volumes

- Lacombe, O., Mazzoli, S., **von Hagke, C.**, Rosenau, M., Fillon, C., Granado, P., (2019) *Tectonophysics Special Issue: Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins: from nature to models* (<https://www.journals.elsevier.com/tectonophysics/call-for-papers>)
- Philippon, M. **von Hagke, C.**, Reber, J., Zanella, A. (2019) *Frontiers in Earth Sciences Research Topic: Cutting-Edge Analogue Modeling Techniques Applied to Study Earth Systems* (<https://www.frontiersin.org/research-topics/7301>)
- von Hagke, C.**, Urai, J.L., Reicherter, K., Wellmann, F., Hilgers, C., (2015) *Geotectonic Research* 97 Special Issue: DRT 2015 – Abstracts 20th International Conference on Deformation Mechanisms, Rheology & Tectonics, Aachen, Germany, September 7th-11th 2015.

Non-peer reviewed publications

- Lacombe, O. Mazzoli, S., **von Hagke, C.**, Rosenau, M., Fillon, C., Granado, P. (2019) *Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins: from nature to models – Introduction to the Special Issue, Tectonophysics* 767, 228163
- von Hagke, C.**, Kettermann, M., Schmatz, J. (2017) GED opens its doors for school classes – Report on outreach activities in VAG Infoblatt (in German)
- Schmatz, J., Klaver, J., Virgo, S., Jiang, M., **von Hagke, C.**, Desbois, D., Urai, J.L. (2017) *Standardized automated multiscale imaging technologies to quantify microstructure and petrophysical properties in a range of rock types, Proceedings of the 79th EAGE Conference & Exhibition 2017*, pp. 1-4
- Grobe, A., Virgo, S., **von Hagke, C.**, Littke, R., Urai, J.L. (2017) *Pressure and temperature evolution under large-scale overthrusts - The carbonate platform under the Semail Ophiolite, Jebel Akhdar, Oman, DGMK/ÖGEW-proceedings of the spring meeting.*
- von Hagke, C.**, (2016) *How Claystone Influences Our Lives. Contribution to the Advent Calendar of the Excellence Initiative of the RWTH Aachen University* (<http://www.rwth-aachen.de/cms/root/Die-RWTH/Exzellenzinitiative/Adventskalender/~defj/Das-sechste-Tuerchen/?lidx=1>)
- von Hagke, C.**, Schmatz, J. (2015) *Deformation Mechanisms, Rheology and Tectonics 2015, Physical Properties of Earth Materials Annual Newsletter*, sites.agu.org/ppem/
- von Hagke, C.**, Urai, J.L., Reicherter, K., Wellmann, F., Hilgers, C., Editorial. *Geotectonic Research*, Vol. 97: vii-viii
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- Chamberlain, E.L., Goodbred, S.L., Al Nahian, A., Rahman A., Reimann, T., Steckler, M., **von Hagke C.**, Wallinga, J. (2020) Competition Between Little Channels and Big Earthquakes to Drive River Avulsion Timescales AGU20
- Frings, K. A., **von Hagke, C.**, Heim, E., Ortner, H., de la Varga, M., Wellmann, F., Luijendijk, E. (2020) Combining section balancing and probabilistic modeling to constrain 3-D geometries of fold-thrust belts and their uncertainty, GeoUtrecht 2020
- Tsukamoto, S., Guralnik, B., Oohashi, K., Otsubo, M., Tanner, D.C., Brandes, C., **von Hagke, C.** (2020), Direct dating of faults by luminescence and ESR: Case studies from Japan and Switzerland, Japanese Geoscience Union
- von Hagke, C.** (2020), From Faults and Fluids to Mountain Belt Dynamics, **ECS-TS Medal Lecture** Abstract Ref. No.: EGU2020-4688
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- Luijendijk, E., Winter, T., **von Hagke, C.**, Ferguson, G. (2019), Using thermal springs to quantify deep fluid flow and its thermal footprint in the Alps, GeoMünster
- Winter, T., Luijendijk, E., **von Hagke, C.**, Ferguson, G. (2019), Hydrochemistry and isotope hydrology of thermal springs in the Alps, GeoMünster
- von Hagke, C.**, Weismüller, C., Kettermann, M., Urai, J.L. Reicherter, K. (2019), The near surface structure of rift systems, GeoMünster
- Luijendijk, E., Winter, T., **von Hagke, C.**, Ferguson, G. (2019), Using thermal springs to quantify deep fluid flow and its thermal footprint in the Alps, Emile Agard Conference on Alpine Geological Studies
- Louis, S., **von Hagke, C.**, Luijendijk, E., (2019), Quantifying long wavelength signal of uplift in the Alpine foreland basin using low-temperature thermochronology and numerical models, Emile Agard Conference on Alpine Geological Studies
- Luijendijk, E., **von Hagke, C.**, Köhler, S., Winter, T., Ferguson, G. (2019), Using thermal springs to quantify deep fluid flow and its thermal footprint in the Alps, Abstract Ref. No. EGU 2019-14373

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- Kettermann, M., **von Hagke, C.**, Winhausen, L., Bücken, D., Weismüller, C., Urai, J.L. (2018) Massively dilatant faulting at divergent plate boundaries – a new model for faults in the upper crust at rift zones based on analogue models and field studies in Iceland, GeoBonn
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- von Hagke, C.**, Malz, A. (2017): Triangle zones, GeoBremen, Abstract A-482
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- Kettermann, M., **von Hagke, C.**, Urai, J.L. (2017) The influence of joint parameters on normal fault evolution and geometry: a parameter study using analogue modeling, Abstract Ref. No. EGU2017-17617
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- Virgo, S., **von Hagke, C.**, Urai, J.L. (2017) Amphibolite boudins in marble on Naxos, Greece: 3D analysis of multiphase deformation on a retrograde P-T path, Abstract Ref. No. EGU2017-10245
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- von Hagke, C.**, Morley, C.K., Kanitpanyacharoen, W. (2016) Mechanics of Shale Detachments – insights from the Khao-Kwang fold-and-thrust belt, Thailand, AGU 2016
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- von Hagke, C.**, Mélody Philippon, and Jean-Philippe Avouac (2014) Reconstructing Taiwan from the Cretaceous to present, AGU 2014 Fall Meeting (Abstract Ref. No. 20899)
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- von Hagke, C.**, Harald Stollhofen, Luca C. Malatesta, and Ian Stanistreet (2014) Constraining aggradation and degradation phases of alluvial fans in the sedimentary record: a case study from the Namib Desert, NW Namibia, Abstract Ref. No. EGU2014-9099
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