

Dr. DIANA RECHID

CONTACT

Dr. Diana Rechid
Climate-Service-Center Germany (GERICS)
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RESEARCH INTERESTS

Land-atmosphere interactions at regional scales
Feedbacks of land use and land cover changes on climate
Land parameterization schemes in regional climate models
Regional climate change projections
Tailoring climate information to climate impact and adaptation research
Integration of climate data and knowledge into practice
Quality standards of climate services

DEGREES

Ph.D. in Meteorology

Max-Planck-Institute for Meteorology and Meteorological Institute Hamburg
Universität Hamburg, 2008

Ph.D. Thesis: „On biogeophysical interactions between vegetation phenology and climate simulated over Europe“ Berichte zur Erdsystemforschung, 61, Max-Planck-Institute for Meteorology, Hamburg 2009

Diploma in Physical Geography

Leibniz Universität Hannover, 2002

Diploma Thesis: "Untersuchung zur Parameterisierung von Landoberflächen im regionalen Klimamodell REMO"

CURRENT POSITION

Head of Climate System Department
Climate Service Center Germany (GERICS), Helmholtz-Zentrum Geesthacht
Guest lecturer at Leuphana University of Lüneburg, Germany

SELECTED RESEARCH PROJECTS AND MEMBERSHIPS

since 2019

Principal Investigator of Helmholtz funded project **ADAPTER** : Simulation-based products for weather- und climate resilient agriculture

since 2019

Principal Investigator in Helmholtz-Climate-Initiative **Net-Zero-2050** Project 4 Storage solutions in nature

since 2018

Principal Investigator & Steering Board Member in Helmholtz funded project **Digital Earth** : Towards SMART Monitoring and Integrated Data Exploration of the Earth System - Implementing the DataScience Paradigm

since 2018

Principal Investigator of Helmholtz-Institute of Climate Service Science (HICSS) Project **LANDMATE** : Modelling human land surface modifications and its feedbacks on local and regional climate

since 2018

Member of Cluster of Excellence "**CLICCS** - Climate, Climatic Change, and Society"

since 2018

Contributing Principle Investigator in HZG project **SYNAPTIC** funded by "Helmholtz Excellence Network for Cluster Proposal CLiCCS - Climate, Climatic Change, and Society": A SYstems dynamics approach to enable the development of climate change AdaPTation pathways in an urban setting for elements of critical Infrastructure and related Cascading effects

since 2018

Representative of HZG in **Helmholtz Working Committee for Knowledge Transfer**

since 2016

Principal Investigator of WCRP CORDEX Flagship Pilot Study **LUCAS** - "Land Use and Climate Across Scales"

2018-2020

Principal Investigator of **LUCE** - Impact of Land Use Changes on regional and local climate in Europe: present and future climate projections, DAAD Scholarship Greece-Germany bilateral cooperation

2018-2019

HZG representative of **Working committee "Klimawandel und Klimaschutz in Ozeanen, Küsten und Polarregionen"** im Themenzyklus „Meere und Ozeane“ des Runden Tisches der Bundesregierung „Internationalisierung von Bildung, Wissenschaft und Forschung

2016-2019

Principal Investigator in **AKWAS** : Development of a training program for water and environmental engineers on adaptation to climate change in water engineering, in cooperation with Technical University Hamburg TUHH

2016-2018

Member of Helmholtz PACES Working Group **Evaluation of Science-Stakeholder Dialogues and Climate Services**

2017

Member of "Qualifizierungszirkel Klimaanpassung mit gestalten - **KLAM**" at "Zentrum für Allgemeine Gesundheitswissenschaften ZAG" of the Leuphana University in Lüneburg

since 2015

Coordination of GERICS activities in the field of **Capacity Building**

2015-2016

Member of **Helmholtz Working Group "Knowledge Transfer"**

since 2014

Point of contact for "Earth System Knowledge Platform **ESKP**" of Helmholtz Research Field Earth & Environment

2014-2017

Member of **User Board of HGF Alliance "Remote Sensing and Earth System Dynamics"**

2013-2016

Scientific contributions to EU FP7 Project **CLIPC** "Climate Information Platform for Copernicus"

2011-2015

Scientific contributions to EU FP7 Project **IMPACT2C** "Quantifying projected impacts under 2°C warming"

since 2011

Scientific contributions to „Coordinated Downscaling Experiment“ **CORDEX** and **EURO-CORDEX**

2010-2014

Scientific contributions to Forschungsverbund **KLIFF** - "Klimafolgenforschung in Niedersachsen"

2009-2014

Postdoctoral research in BMBF joint project **KLIMZUG-NORD** „Strategic adaptation to climate change in the Metropolitan Region of Hamburg“- Coordination of cross-sectional task "Climate Change" and lead of project „Robustness of climate change patterns and feedback of adaptation measures in land management to regional climate“

2008-2012

Scientific contributions to EU FP7 **ACQWA** "Assessing climate impacts on the quantity and quality of water"

2008-2011

Scientific contributions to EU FP7 **CC-TAME** "Climate Change - Terrestrial Adaptation & Mitigation in Europe"

2004-2009

Scientific contributions to EU FP6 **ENSEMBLES** "Climate change and its impacts at seasonal, decadal and centennial timescales „

2002-2007

Doctoral research in BMBF/DEKLIM project **QUIRCS** - „Quantification of Uncertainties in Regional Climate and Climate Change Simulations“ and sub-project IVECC „Influence of vegetation on regional climate change simulations“

2001-2004

Scientific contributions to EU FP6 **PRUDENCE** "Prediction of Regional scenarios and Uncertainties for Defining European Climate change risks and Effects"

since 2000

Team member of regional climate modelling group **REMO** at Max-Planck-Institute for Meteorology and the Climate Service Center Germany

UNIVERSITY LECTURES AND PROFESSIONAL TRAINING COURSES**2020**

Leuphana Lecture **Climate Adaptation** - Full semester course at Leuphana University Lüneburg

since 2013

Lecture „Climate Physics“ and „Practical course on climate data processing“ - Full semester course at Leuphana University Lüneburg in Bachelor Studies Environmental Science Module "**Practical aspects of climate and environmental physics**"

since 2012

Invited guest lecture: "**Climate Change: The Natural Science Basis**" at Hafen City University Hamburg in M.Sc. Programme Resource Efficiency in Architecture and Planning (REAP) in Module "Facets of Sustainability"

2018-2019

Development of climate modules for training course "**Anpassung an den Klimawandel in der Wasserbaulichen Praxis - AKWAS**" in cooperation with Technical University Hamburg TUHH

2017

Lecture "**Von globalen Klimaänderungen zur lokalen Anpassung**" in the frame of the training course "Klimaanpassung mit gestalten" of the "Zentrum für Angewandte Gesundheitswissenschaften ZAG" at Leuphana University Lüneburg

2015

Professional training course: "**Bewertung von Klimainformationen in Klimarisikoanalysen im Rahmen der Projektausarbeitung**" In-house training course at German Development Bank KfW in Frankfurt/Main

Training program for consultants and financing institutions: **Integrating climate information into development projects and climate risk analyses.** Growing opportunities in climate change adaptation, EUFIWACC climate risk information day for consultants - 2nd June 2015, Brussels

2014

Lecture "**Climate Information for Society**" - Lecture for master students from WATENV Master of Science Programme / Leibniz University of Hannover, at Climate Service Center in Hamburg

2012

Invited guest lecture "**Klima und Klimaänderungen - Einführung in die physikalischen Grundlagen**" - at Leuphana University Lüneburg in seminar series „Klimafolgenanpassungs-Strategien in der Wasser- und Bodennutzung“

2010

Training Course "**Verwendung von Klimadaten - Vom Download zur Visualisierung**" - Workshop on climate data processing at Hamburg University Computing Center with hands on session

2009

Training for data user of KLIMZUG-NORD at TuTech in Hamburg: "**Regionale Klimadaten und ihre Anwendung**"

PUBLICATIONS : PEER REVIEWED JOURNAL ARTICLES**2020**

Breil, M., Davin, E. L., and Rechid, D.: What determines the sign of the evapotranspiration response to afforestation in the European summer?, *Biogeosciences Discuss.*, <https://doi.org/10.5194/bg-2020-275>, In review, 2020.

Breil M.; Rechid D; Davin E; de Noblet-Ducoudré N.; Katragou E; Cardoso R; Hoffmann P; Jach L; Soares P; Sofiadis G; Strada S; Strandberg G; Toelle M; Warrach-Sag K: The opposing effects of afforestation on the diurnal temperature cycle at the surface and in the atmospheric surface layer in the European summer. *Journal of Climate*, Accepted.

Davin, E. L., Rechid, D., Breil, M., Cardoso, R. M., Coppola, E., Hoffmann, P., Jach, L. L., Katragkou, E., de Noblet-Ducoudré, N., Radtke, K., Raffa, M., Soares, P. M. M., Sofiadis, G., Strada, S., Strandberg, G., Tölle, M. H., Warrach-Sagi, K., and Wulfmeyer, V (2020) : Biogeophysical impacts of forestation in Europe: First results from the LUCAS Regional Climate Model intercomparison, *Earth Syst. Dynam.*, 11, 183-200, 2020, <https://doi.org/10.5194/esd-11-183-2020>

Reinhart V, Fonte C, Hoffmann P, Bechtel B, Rechid D, Boehner J: Comparison of ESA Climate Change Initiative Land Cover to CORINE Land Cover over Eastern Europe and the Baltic States from a regional climate modeling perspective. *International Journal of Applied Earth Observations and Geoinformation*. Accepted.

Weber T, Bowyer P, Rechid D, Pfeifer S, Raffaele F, Remedio AR, Teichmann C, Jacob D : Analysis of Compound Climate Extremes and Exposed Population in Africa under two different Emission Scenarios. *Earth's Future*, Accepted.

Sieck, K., Nam, C., Bouwer, L. M., Rechid, D., and Jacob, D.: Weather extremes over Europe under 1.5 °C and 2.0 °C global warming from HAPPI regional climate ensemble simulations, *Earth Syst. Dynam. Discuss.*, <https://doi.org/10.5194/esd-2020-4>, In review, 2020.

Jacob, D., Teichmann, C., Sobolowski, S. et al. Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. *Reg Environ Change* 20, 51 (2020). <https://doi.org/10.1007/s10113-020-01606-9>

Teichmann C, Jacob D, Remedio AR, Remke R, Bunttemeyer L, Hoffmann P, Langendijk GS, Kriegsmann A, Lierhammer L, Buelow K, Weber T, Sieck K, Rechid D, Coppola E, Giorgi F, Ciarlo J, Raffaele F, Graziano G, Gao X, Sines TR, Torres Alavez JA, Das S, di Sante F, Pichelli E, Glazer R, Ashfaq M,

Bukovsky M, Im E-S : Assessing mean climate change signals in the global CORDEX-CORE ensemble. *Climate Dynamics*. In review.

Ciarlo, J. M., Coppola, E., Fantini, A., Giorgi, F., Gao, X., Tong, Y., Glazer, R. H., Torres Alavez, J. A., Sines, T., Pichelli, E., Raffaele, F., Das, S., Bukovsky, M., Ashfaq, M., Im, E.-S., Nguyen-Xuan, T., Teichmann, C., Remedio, A., Remke, T., Bülow, K., Weber, T., Bunttemeyer, L., Sieck, K., Rechid, D. and Jacob, D. (2020). A new spatially distributed Added Value Index for Regional Climate Models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles. *Clim Dyn* (2020). <https://doi.org/10.1007/s00382-020-05400-5>

Steuri, Bettina & Blome, Tanja & Bülow, Katharina & El Zohbi Juliane & Hoffmann, Peter & Petersen, Juliane & Pfeifer, Susanne & Rechid, Diana & Jacob, Daniela. (2020). Behind the scenes of an interdisciplinary effort: conception, design and production of a flyer on climate change for the citizens of Hamburg. *Advances in Science and Research*. 17. 9-17. 10.5194/asr-17-9-2020.

2019

Langendijk, G.S.; Rechid, D.; Jacob, D. Urban Areas and Urban-Rural Contrasts under Climate Change: What Does the EURO-CORDEX Ensemble Tell Us?—Investigating Near Surface Humidity in Berlin and Its Surroundings . *Atmosphere* 2019, 10, 730.

Remedio, A.R.; Teichmann, C.; Bunttemeyer, L.; Sieck, K.; Weber, T.; Rechid, D.; Hoffmann, P.; Nam, C.; Kotova, L.; Jacob, D. (2019) Evaluation of New CORDEX Simulations Using an Updated Köppen-Trewartha Climate Classification. *Atmosphere* 2019, 10, 726.

Pfeifer S, Rechid D, Reuter M, Viktor E, Jacob D (2019) 1.5°C, 2°C, and 3°C global warming: a new method to detect European regions affected by multiple changes. *Regional Environmental Change* (2019) 19:1777–1786

Zahid M, El Zhobi J, Viktor E, Rechid D, Schuck-Zöllner S, Keup-Thiel E, Jacob D (2019): What does quality mean to climate data users/providers and how to enable them to evaluate the quality of climate model data and derived products? Chapter 10 in: *Handbook of Climate Services*. Leal Filho, W., Jacob, D. (eds.), 183-201, Springer. https://doi.org/10.1007/978-3-030-36875-3_10

2018

Teichmann C, Bülow K, Otto J, Pfeifer S, Rechid D, Sieck K, Jacob D. 2018. Avoiding Extremes - Benefits of Staying below+ 1.5° C compared to + 2.0° C and+ 3.0° C Global Warming. *Atmosphere* 9 (4), 115

Weber T, Haensler A, Rechid D, Pfeifer S, Eggert B, Jacob D (2018) Analysing regional climate change in Africa in a 1.5°C, 2°C and 3°C global warming world. *Earth's Future* 6 (4), 643-655

Wiesner S, Bechtel B, Fischereit J, Gruetzun V, Hoffmann P, Leitl B, Rechid D, Schlünzen KH, Thomsen S (2018) Is It Possible to Distinguish Global and Regional Climate Change from Urban Land Cover Induced Signals? A Mid-Latitude City Example. *Urban Science* 2 (1), 12

Xu, J., Koldunov, N.V., Remedio, A.R.C., Dein, D.V., Rechid, D., Zhi, X., Jiang, X., Xu M., Zhu, X., Fraedrich, K., Jacob D., Downstream effect of Hengduan Mountains on East China in the REMO regional climate model. *Theor Appl Climatol* (2018). <https://doi.org/10.1007/s00704-018-2721-0>

2011-2015

Pfeifer S, Bülow K, Gobiet A, Hänsler A, Mudelsee M, Otto J, Rechid D, Teichmann C, Jacob D (2015) Robustness of Ensemble Climate Projections Analyzed with Climate Signal Maps: Seasonal and Extreme Precipitation for Germany. *Atmosphere*, 6, 677-698.

Wilhelm C, Rechid D, Jacob D (2014) Dynamic coupling of regional atmosphere with biosphere in the new generation regional climate system model REMO-iMOVE. *Geosci. Model Dev.*, 7, 1093-1114, doi:10.5194/gmd-7-1093-2014

Jacob D, Petersen J, Eggert B, Alias A, Christensen OB, Bouwer L, Braun A, Colette A, Déqué M, Georgievski G, Georgopoulou E, Gobiet A, Menut L, Nikulin G, Haensler A, Hempelmann N, Jones C, Keuler K, Kovats S, Kröner N, Kotlarski S, Kriegsman A, Martin E, Meijgaard E, Moseley C, Pfeifer S, Preuschmann S, Radermacher C, Radtke K, Rechid D, Rounsevell M, Samuelsson P, Somot S, Soussana J-F, Teichmann C, Valentini R, Vautard R, Weber B. & Yiou P (2014) EURO-CORDEX: new high-resolution climate change projections for European impact research. *Regional Environmental Change*, 14, 563-578

Gálos B, Hagemann S, Hänsler A, Kindermann G, Rechid D, Sieck K, Teichmann C, Jacob D (2013) Case study for the assessment of the biogeophysical effects of a potential afforestation in Europe. *Carbon Balance and Management*. DOI:10.1186/1750-0680-8-3.

Teichmann C, Eggert B, Elizalde A, Haensler A, Jacob D, Kumar P, Moseley C, Pfeifer S, Rechid D, Remedio A R, Ries H, Petersen J, Preuschmann S, Raub T, Saeed F, Sieck K and Weber T (2013) How does a regional climate model modify the projected climate change signal of the driving GCM: A study over different CORDEX regions using REMO. *Atmosphere* 4(2), 214-236. DOI: 10.3390/atmos4020214.

Gálos B, Hagemann S, Hänsler A, Kindermann G, Rechid D, Sieck K, Jacob D (2012) The Role of Forests in Mitigating Climate Change - a Case Study for

Europe. *Acta Silvatica et Lignaria Hungarica*, 8, 87-102, ISSN (Print) 1787-064X, DOI: 10.2478/v10303-012-0007-2.

Jacob D, Elizalde A, Hänsler A, Hagemann S, Kumar P, Rechid D, Remedio A R, Saeed F, Sieck K, Teichmann C, Wilhelm C, Podzun R (2012) Assessing the transferability of the regional climate model REMO to different CORDEX regions, *Atmosphere* 2012, 3(1), 181-199, DOI:10.3390/atmos3010181.

Schoetter R, Hoffmann P, Rechid D, Schlünzen KH (2012) Evaluation and bias correction of regional climate model results using model evaluation measures. *J. Appl. Meteor. Climatol.*, 51, 1670-1684.

2006-2010

Rechid D, Raddatz TJ, Jacob D (2009) Parameterization of snow-free land surface albedo as a function of vegetation phenology based on MODIS data and applied in climate modelling. *Theor. Appl. Climatol.*, 95, 245-255

Rechid D, Hagemann S, Jacob D (2009) Sensitivity of climate models to seasonal variability of snow-free land surface albedo. *Theor Appl Climatol*, 95, 197-221.

Göttel H, Alexander J, Keup-Thiel E, Rechid D, Hagemann S, Blome T, Wolf A, Jacob D (2008) Influence of changed vegetations fields on regional climate simulations in the Barents Sea Region. *Climatic Change*, 87, 35-50.

Rechid D, Jacob D (2006) Influence of monthly varying vegetation on the simulated climate in Europe. *Meteorologische Zeitschrift*, 15, 99-116.

Walter A, Keuler K, Jacob D, Knoche R, Block A, Kotarski S, Mueller-Wertermeier G, Rechid D, Ahrends W (2006) A high resolution reference data set of German wind velocity 1951-2001 and comparison with regional climate model results. *Meteorologische Zeitschrift*, 15, 585-596.

Kotlarski S, Böhm U, Jacob D, Keuler K, Knoche R, Rechid D, Walter A (2005) Regional Climate Model Simulations as Input for Hydrological Applications. *Advances in Geoscience*, 119-125.

PUBLICATIONS : EDITED BOOKS

Rechid D, Petersen J, Schoetter R, Jacob D (2014) Klimaprojektionen für die Metropolregion Hamburg. *Berichte aus den KLIMZUG-NORD Modellgebieten, Band 1*, TuTech Verlag, Hamburg, ISBN: 978-3-941492-67-7

Urban B, Becker J, Mersch I, Meyer W, Rechid D, Rottgardt E (Hrsg.) (2014) Klimawandel in der Lüneburger Heide - Kulturlandschaften zukunftsfähig gestalten. *Berichte aus den KLIMZUG-NORD Modellgebieten, Band 6*, TuTech Verlag, Hamburg. ISBN: 978-3-941492-72-1

PUBLICATIONS : BOOK CHAPTERS

Meinke I, Rechid D, Tinz B, Maneke M, Lefebvre C, Isokeit E. 2018. Klima der Region - Zustand, bisherige Entwicklung und mögliche Änderungen bis 2100. In Hamburger Klimabericht - Wissen über Klima, Klimawandel Und Auswirkungen in Hamburg und Norddeutschland, von Storch H, , Meinke I, , Claußen M (eds).Springer Berlin Heidelberg: Berlin, Heidelberg; 15-36.

Jacob, D., Kottmeier, C., Petersen, J., Rechid, D., Teichmann, C.: Regionale Klimamodellierung. In: Brasseur, Guy; Jacob, Daniela; Schuck-Zöller, Susanne (Hg.) (2017): Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven. Springer: DOI 10.1007/978-3-662-50397-3

Schmidt, H., Eyring, V., Latif, M., Rechid, D., Sausen, R.: Globale Sicht des Klimawandels. In: Brasseur, Guy; Jacob, Daniela; Schuck-Zöller, Susanne (Hg.) (2017): Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven. Springer: DOI 10.1007/978-3-662-50397-3

Rechid D, Meier M H E, Schrum C, Rummukainen M, Moseley C, Bülow K, Elizalde A, Su J, Pohlmann T (2016) Climate Model Simulations for the North Sea Region - Annex 2. In: Quante M, Colijn F (eds) North Sea Region Climate Change Assessment. Regional Climate Studies, Springer Verlag, Cham, Heidelberg, New York, Dordrecht, London. ISBN: 978-3-319-39743-6

Rechid D, Petersen J, Jacob D (2014) "Klimaprojektionen für die Metropolregion Hamburg", In: KLIMZUG-NORD Verbund (Hrsg.) (2014): Kursbuch Klimaanpassung. Handlungsoptionen für die Metropolregion Hamburg, TuTech Verlag, Hamburg. ISBN: 978-3-941492-66-0

Urban B, Rechid D, Mersch I (2014) LAND Klimaangepasste Kulturlandschaft - Leistungsfähiger Naturhaushalt und umweltschonende Landbewirtschaftung " In: KLIMZUG-NORD Verbund (Hrsg.) (2014): Kursbuch Klimaanpassung. Handlungsoptionen für die Metropolregion Hamburg, TuTech Verlag, Hamburg. ISBN: 978-3-941492-66-0

Jensen K, Rechid D, Knieling J (2014) Charakteristika der Metropolregion Hamburg. In: KLIMZUG-NORD Verbund (Hrsg.) (2014): Kursbuch Klimaanpassung. Handlungsoptionen für die Metropolregion Hamburg, TuTech Verlag, Hamburg. ISBN: 978-3-941492-66-0

Petersen J, Rechid D (2014) Rückwirkungen von Feldberegnung und Waldumbau auf das regionale Klima - Eine Modellrechnung. In: KLIMZUG-NORD Verbund (Hrsg.) (2014): Kursbuch Klimaanpassung. Handlungsoptionen für die Metropolregion Hamburg, TuTech Verlag, Hamburg. ISBN: 978-3-941492-66-0

Grocholl J, Mersch I, Rechid D, Urban B (2014) Charakteristika des Modellgebietes Lüneburger Heide. In: Urban B, Becker J, Mersch I, Meyer W,

Rechid D, Rottgardt E (Hrsg.) (2014) Klimawandel in der Lüneburger Heide – Kulturlandschaften zukunftsfähig gestalten. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 6, TuTech Verlag, Hamburg. ISBN: 978-3-941492-72-1

Rechid D, Petersen J, Schoetter R, Jacob D (2014) Klimaprojektionen für das Modellgebiet Lüneburger Heide. In: Urban B, Becker J, Mersch I, Meyer W, Rechid D, Rottgardt E (Hrsg.) (2014) Klimawandel in der Lüneburger Heide – Kulturlandschaften zukunftsfähig gestalten. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 6, TuTech Verlag, Hamburg. ISBN: 978-3-941492-72-1

Petersen J, Rechid D (2014) Rückwirkungen von Waldumbau und Beregnung auf das simulierte regionale Klima. In: Urban B, Becker J, Mersch I, Meyer W, Rechid D, Rottgardt E (Hrsg.) (2014)

Klimawandel in der Lüneburger Heide – Kulturlandschaften zukunftsfähig gestalten. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 6, TuTech Verlag, Hamburg. ISBN: 978-3-941492-72-1

Mersch I, Meyer W, Rechid D, Urban B (2014) Ergebnisse und abgeleitete Handlungsempfehlungen für das Modellgebiet Lüneburger Heide. In: Urban B, Becker J, Mersch I, Meyer W, Rechid D, Rottgardt E (Hrsg.) (2014) Klimawandel in der Lüneburger Heide – Kulturlandschaften zukunftsfähig gestalten. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 6, TuTech Verlag, Hamburg. ISBN: 978-3-941492-72-1

Schoetter R, Hoffmann P, Linde M, Petersen J, Rechid D, Schlünzen KH (2014) Projizierte Veränderungen des regionalen Klimas im Raum Hamburg. In: Kruse, Elke, Zimmermann, Thomas, Kittel, Anne, Dickhaut, Wolfgang, Knieling, Jörg, Sörensen, Christiane (Hrsg.) (2014): Stadtentwicklung und Klimaanpassung: Klimafolgen, Anpassungskonzepte und Bewusstseinsbildung beispielhaft dargestellt am Einzugsgebiet der Wandse, Hamburg. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 2, TuTech Verlag, Hamburg. ISBN: 978-3-941492-68-4

Rechid D, Petersen J, Schoetter R, Jacob D (2014) Klimaprojektionen für das Biosphärenreservat Niedersächsische Elbtalaue. In: Prüter, Johannes, Keienburg, Tobias, Schreck, Christiane (Hrsg.) (2014): Klimafolgenanpassung im Biosphärenreservat Niedersächsische Elbtalaue – Modellregion für nachhaltige Entwicklung. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 5, TuTech Verlag, Hamburg. ISBN: 978-3-941492-71-4

Rechid D, Dröse M, Petersen J, Hempelmann N (2014) Auswertung phänologischer Zeitreihen der Metropolregion Hamburg mit Fokus auf die Niedersächsische Elbtalaue. In: Prüter, Johannes, Keienburg, Tobias, Schreck, Christiane (Hrsg.) (2014): Klimafolgenanpassung im Biosphärenreservat Niedersächsische Elbtalaue – Modellregion für nachhaltige Entwicklung. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 5, TuTech Verlag, Hamburg. ISBN: 978-3-941492-71-4

Linde M, Hoffmann P, Petersen J, Rechid D, Schlünzen KH, Schoetter R (2014) Klimaänderungen. In: Schlünzen, K. Heinke, Linde, Marita (Hrsg.) (2014): Wilhelmsburg im Klimawandel. Ist-Situation und mögliche Veränderungen. Berichte aus den KLIMZUG-NORD Modellgebieten, Band 4, TuTech Verlag, Hamburg. ISBN: 978-3-941492-70-7

PUBLICATIONS : SELECTED SCIENTIFIC REPORTS

Máñez Costa M, Schulze S, Hirschfeld J, Rechid D, Bieritz L, Lutz C, Nieters A, Stöver B, Jahn M, Rische M C, Yadegar E, Schröder A, Hirte G, Langer S, Tscharaktschiew S, K.Eisenach and J.M Steinhäuser (2016): Synthesis of existing regional and sectoral economic modelling and its possible integration with regional earth system models in the context of climate modelling. Report 27. Climate Service Center Germany, Hamburg.

Boberg F, Christensen OB, Dell'Aquila A, Fox Maule C, Jacob D, Gobiet A, Hänsler A, Kotova L, Mendlik T, Pfeifer S, Rechid D (2015) Methods to extract quantitative information of climate change and climate change uncertainty from regional multi-model climate model ensembles. D5.1 Report on the definition of IMPACT2C mandatory climate simulations and method applications. FP7 282746 IMPACT2C Quantifying projected impacts under 2°C warming.

Ludwig F, Rechid D, Mendlik T, Boyer, P Watkiss P, Supit I (2015) Developing guidance and stimulate consistent use of climate change data in climate change impact, vulnerability and adaptation assessments. D11.1. Synthesis report on cross-sectoral analysis and case studies, including European vulnerability maps, FP7 282746 IMPACT2C Quantifying projected impacts under 2°C warming.

Bowyer P, Bender S, Rechid D, Schaller M (2014) Adapting to Climate Change: Methods and Tools for Climate Risk Management. CSC Report 17, Climate Service Center, Hamburg

Jacob D, Bülow K, Kotova L, Moseley C, Petersen J, Rechid D (2012) Regionale Klimaprojektionen für Europa und Deutschland: Ensemble Simulationen für die Klimafolgenforschung. CSC Report 6, Climate Service Center, Hamburg.

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Wilhelm C, Rechid D, Jacob D (2013) Dynamic Coupling of Regional Atmosphere with Biosphere in the New Generation Regional Climate System

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