

## DIANA RECHID

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### Research interests

Regional climate modelling  
Regional to local climate change projections  
Effects and feedbacks of land-atmosphere interactions and land use changes on regional climate  
Tailoring climate information to climate impact and adaptation research  
Co-Creation of climate services

### Degrees

#### Ph.D. in Meteorology

Max-Planck-Institute for Meteorology and Meteorological Institute and 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", Hannover 2002*

### Current position

**Climate Service Center Germany (GERICS), Helmholtz-Zentrum Hereon**

Head of Department Regional and Local Climate Change

### Selected research projects and memberships

#### Supervision of PhDs projects

#### University lectures and professional training courses

#### Publications: Peer-reviewed journal articles

#### Publications: Edited books

#### Publications: Book chapters

#### Publications: Selected scientific reports

#### Publications: Selected articles

#### Publications: Selected data sets

#### Publications: Selected digital climate service products

#### Publications: Selected conference contributions

**Last update: November 2024**

## Selected research projects and memberships

### Since 2024

Principal investigator of EU Horizon Project **FOCAL - Efficient Exploration of climate data locally**

### Since 2024

Speaker of Helmholtz-Institute of **Climate Service Science (HICSS) Cluster STORYLINE** „Simulation- and participatory-based climate services to better prepare society for climatic extremes – Extending the predictive capacity and application scopes of convection permitting regional climate model simulations for urban and rural systems“ and Principal Investigator of **Project HYDROLINE** „Retrospective and pseudo-global-warming simulations of extreme hydro-meteorological events using an integrated hydrometeorological modeling approach“

### Since 2023

Coordinator of **CIRCE - City-oriented Impacts of Regional Climate for Europe** - funded by EU HORIZON Marie Skłodowska-Curie Actions (MSCA)

### Since 2023

Principal Investigator of EU Horizon Project **OptFor-EU - Optimising forest management decisions for a low-carbon, climate resilient future in Europe**

### Since 2023

Principal Investigator of BMBF funded project **ClimXchange** in the frame of BMBF funding priority Climate Change and Weather Extremes in Europe: Building a knowledge base for decision support **ClimXtreme Phase 2**, as part of the Research Framework Program for Research and Sustainable Development (FONA).

### 2023

Principal Investigator of BMEL funded project **Beets4Future**: Model and data-based yield scenarios for climate-adapted selection in breeding.

### 2021-2024

Principal Investigator of **CoKLIMAx - Use of Copernicus data for climate-resilient urban planning using the example of water, heat and vegetation: development of low-threshold tools and efficient work processes for data retrieval, processing, evaluation and application by municipalities** - funded by BMVI in the field of "Development and preparing implementation of Copernicus services for public needs on climate adaptation strategies for municipal applications in Germany"

### 2021-2024

Principal Investigator of **CDRSynTra - Carbon Dioxide Removal Synthesis and Transfer** - funded by BMBF as part of the "Carbon Dioxide Removal" funding line

### since 2020

Steering Board Member of Topic 5 „**Landscapes of the Future: Securing Terrestrial Ecosystems and Freshwater Resources under Natural Dynamics and Global Change**“ in the Research Program „Changing Earth – Sustaining our Future“ of Helmholtz Research Field Earth & Environment

### 2020-2023

Lead author of **German Climate Change Assessment** „Klimawandel in Deutschland“ Chapter 4 on „Regionale Klimamodellierung“

### 2020-2023

Supervision of BMBF funded project **CS4eXtremes** (Climate Services for eXtremes) in the frame of BMBF funding priority ClimXtreme (Climate Change and Extreme Events), as part of the Research Framework Program for Research and Sustainable Development (FONA).

### 2019-2022

Co-Editor of Digital Earth Book „**Integrative Data-Driven Science: Changing the landscape in Earth System research**“

### 2019-2023

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

### 2019-2022

Principal Investigator in Helmholtz-Climate-Initiative HICAM Cluster 1 **Net-Zero-2050** Project 4 „Storage solutions in nature“

### 2018-2022

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

### 2018-2023

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**"

## 2018-2021

Contributing Principle Investigator in Hereon 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

## 2018-2022

Representative of Hereon 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

Hereon 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

## 2015-2019

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

## 2015-2016

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

## 2014-2020

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

## 2014-2017

Member of User Board and Member of midterm-Evaluation 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 the 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". 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

## Supervision of PhDs projects

Laura Detjen: Modeling past and future meteorological extremes at convection-permitting scale. Universität Hamburg (ongoing)

Christina Pop: Modeling and analyzing the effects and feedbacks of irrigation on land-atmosphere interaction using a regional climate model up to convection-permitting scale. Universität Hamburg (ongoing)

Ioannis Sofiadis: Investigating the impact of land cover changes on European climate with regional climate model simulations. Ph.D. Thesis, School of Geology, Aristotle University of Thessaloniki (2022)

Gaby Langendijk: Towards improved climate change information for urban areas following a regional-to-local climate modeling and data analysis approach for the Berlin region. Leuphana Universität Lüneburg (2022)

Vanessa Reinhart: The improvement of land use and land cover representation in regional climate models. Universität Hamburg (2022)

## University lectures and professional training courses

### 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"

### 2013-2021

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**"

### 2021

Webinar zum Projekt **ADAPTER**: „Entwicklung von Klima- und Wetterdaten-basierter Informationsprodukte für die Pflanzenzucht“, Gemeinschaft zur Förderung von Pflanzeninnovation e. V., 19.3.2021

### 2020

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

### 2020

Development and implementation of Online Training Course „**Using Climate Data for Project Design**“ for technical experts and project designer at German Development Bank KfW, October 2020

### 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 mitgestalten" of the "Zentrum für Angewandte Gesundheitswissenschaften ZAG" at Leuphana University Lüneburg

### 2015

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

### 2015

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

### 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

### 2024

Asselin, O., Leduc, M., Paquin, D., de Noblet-Ducoudré, N., Rechid, D., Ludwig, R.: Blue in green: Forestation turns blue water green, mitigating heat at the expense of water availability. Accepted manuscript, *Environ. Res. Lett.* (2024). DOI 10.1088/1748-9326/ad796c

Frisius, T.; Işık Çefin, I.; Keup-Thiel, E.; Rechid, D.: Analysis of high-resolution convection-permitting regional climate simulations with respect to the impact of spatial resolution on simulated wind climate. *Journal of Physics: Conference Series*. 2024. vol. 2767, no. 9, 092023. DOI: 10.1088/1742-6596/2767/9/092023

Harrs, J.-A., Reinhart, V., Vögt, V., Scheib, J.P.P., Tewes, T., Pohl, T. & Rechid, D.: Integration of climate information into urban climate change adaptation: A case study of municipal processes in Constance. (2024) *Climate Services*, 35, art. no. 100495, DOI: 10.1016/j.csliser.2024.100495

Katragkou E, Sobolowski S P, Teichmann C, Solmon F, Pavlidis V, Rechid D, Hoffmann P, Fernandez J, Nikulin G, Jacob D.: Delivering an Improved Framework for the New Generation of CMIP6-Driven EURO-CORDEX Regional Climate Simulations. *Bull. Am. Meteorol. Soc.* 105, E962–E974 (2024).

Langendijk, G. S. *et al.* Urban Climate Towards better understanding the urban environment and its interactions with regional climate change - The WCRP CORDEX Flagship Pilot Study URB-RCC. 58, (2024).

Tamoffo, A. T., Weber, T., Cabos, W., Sein, D. V., Dosio, A., Rechid, D., et al. (2024). Mechanisms of added value of acoupled global ocean-regional atmosphere climate model over Central Equatorial Africa. *Journal of Geophysical Research: Atmospheres*, 129, e2023JD039385. <https://doi.org/10.1029/2023JD039385>

Wohland, J., Hoffmann, P., Lima, D. C. A., Breil, M., Asselin, O., and Rechid, D.: Extrapolation is not enough: impacts of extreme land use change on wind profiles and wind energy according to regional climate models, *Earth Syst. Dynam.*, 15, 1385–1400, <https://doi.org/10.5194/esd-15-1385-2024>, 2024.

### 2023

Asmus, C., Hoffmann, P., Pietikäinen, J.-P., Böhner, J., and Rechid, D.: Modeling and evaluating the effects of irrigation on land–atmosphere interaction in southwestern Europe with the regional climate model REMO2020–iMOVE using a newly developed parameterization, *Geosci. Model Dev.*, 16, 7311–7337, <https://doi.org/10.5194/gmd-16-7311-2023>, 2023.

Bathiany S, Belleflamme A, El Zohbi J, Ney P, Goergen K, Rechid D: Increasing interannual climate variability during crop flowering in Europe. 2023 *Environ. Res. Lett.* 18 044037. <https://doi.org/10.1088/1748-9326/acc87e>

Belleflamme A, Goergen K, Wagner N, Kollet S, Bathiany S, El Zohbi J, Rechid D, Vanderborgh J and Vereecken H (2023) Hydrological forecasting at impact scale: the integrated ParFlow hydrological model at 0.6km for climate resilient water resource management over Germany. *Front. Water* 5:1183642. doi: 10.3389/frwa.2023.1183642

Fotso-Nguemo, T. C., Weber, T., Diedhiou, A., Chouto, S., Vondou, D.A., Rechid, D., & Jacob, D. (2023). Projected impact of increased global warming on heat stress and exposed population over Africa. *Earth's Future*, 11, e2022EF003268. <https://doi.org/10.1029/2022EF003268>

Hoffmann, P., Reinhart, V., Rechid, D., de Noblet-Ducoudré, N., Davin, E. L., Asmus, C., Bechtel, B., Böhner, J., Katragkou, E., and Luyssaert, S.: High-resolution land use and land cover dataset for regional climate modelling: historical and future changes in Europe, *Earth Syst. Sci. Data*, 15, 3819–3852, <https://doi.org/10.5194/essd-15-3819-2023>, 2023.

Knutzen, F., Averbeck, P., Barrasso, C., Bouwer, L. M., Gardiner, B., Grünzweig, J. M., Hänel, S., Haustein, K., Johannessen, M. R., Kollet, S., Pietikaeinen, J.-P., Pietras-Couffignal, K., Pinto, J. G., Rechid, D., Rousi, E., Russo, A., Suarez-Gutierrez, L., Wendler, J., Xoplaki, E., and Gliksmann, D.: Impacts and damages of the European multi-year drought and heat event 2018–2022 on forests, a review, *EGUsphere [preprint]*, <https://doi.org/10.5194/egusphere-2023-1463>, 2023.

### 2022

Daloz, A. S., Schwingshackl, C., Mooney, P., Strada, S., Rechid, D., Davin, E. L., Katragkou, E., de Noblet-Ducoudré, N., Belda, M., Halenka, T., Breil, M., Cardoso, R. M., Hoffmann, P., Lima, D. C. A., Meier, R., Soares, P. M. M., Sofiadis, G., Strandberg, G., Toelle, M. H., and Lund, M. T.: Land–atmosphere interactions in sub-polar and alpine climates in the CORDEX flagship pilot study Land Use and Climate Across Scales (LUCAS) models – Part 1: Evaluation of the snow-albedo effect, *The Cryosphere*, 16, 2403–2419, <https://doi.org/10.5194/tc-16-2403-2022>, 2022.

Giorgi F, E Coppola, D Jacob, C Teichmann, S Abba Omar, M Ashfaq, N Ban, K Bülow, M Bukovsky, L Buntmeyer, T Cavazos, J Ciario, R Porfirio Da Rocha, S Das, F di Sante, J P Evans, X Gao, G Giuliani, R H Glazer, P Hoffmann, E-S Im, G Langendijk, L Lierhammer, M Llopart, S Mueller, R Luna-Nino, R Nogherotto, E Pichelli, F Raffaele, M Reboita, D Rechid, A Remedio, T Remke, W Sawadogo, K Sieck, J A Torres-Alavez, T Weber (2022) The CORDEX-CORE EXP-I initiative: description and highlight results from the initial analysis *Bull. Am. Meteorol. Soc.* 103 (2), E293-E310, [doi.org/10.1175/BAMS-D-21-0119.1](https://doi.org/10.1175/BAMS-D-21-0119.1)

- Hoffmann, P., Reinhart, V., Rechid, D., de Noblet-Ducoudré, N., Davin, E. L., Asmus, C., Bechtel, B., Böhner, J., Katragkou, E., and Luysaert, S.: High-resolution land use and land cover dataset for regional climate modelling: Historical and future changes in Europe, *Earth Syst. Sci. Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2022-431>, in review, 2022.
- Koedel U, Schuetze C, Fischer P, Bussmann I, Sauer PK, Nixdorf E, Kalbacher T, Wichert V, Rechid D, Bouwer LM and Dietrich P (2022) Challenges in the Evaluation of Observational Data Trustworthiness From a Data Producers Viewpoint (FAIR+). *Front. Environ. Sci.* 9:772666. doi: 10.3389/fenvs.2021.772666
- Langendijk GS, Rechid D, Jacob D (2022) Improved models, improved information? Exploring how climate change impacts pollen, influenza, and mold in Berlin and its surroundings. *Urban Climate*, Volume 43,101159, ISSN 2212-0955, <https://doi.org/10.1016/j.uclim.2022.101159>.
- Marien, L., Valizadeh, M., zu Castell, W., Nam, C., Rechid, D., Schneider, A., Meisinger, C., Linseisen, J., Wolf, K., and Bouwer, L. M.: Machine learning models to predict myocardial infarctions from past climatic and environmental conditions, *Nat. Hazards Earth Syst. Sci.*, 22, 3015–3039, <https://doi.org/10.5194/nhess-22-3015-2022>, 2022.
- Mooney, P. A., Rechid, D., Davin, E. L., Katragkou, E., de Noblet-Ducoudré, N., Breil, M., Cardoso, R. M., Daloz, A. S., Hoffmann, P., Lima, D. C. A., Meier, R., Soares, P. M. M., Sofiadis, G., Strada, S., Strandberg, G., Toelle, M. H., and Lund, M. T.: Land-atmosphere interactions in sub-polar and alpine climates in the CORDEX Flagship Pilot Study Land Use and Climate Across Scales (LUCAS) models – Part 2: The role of changing vegetation, *The Cryosphere*, 16, 1383–1397, <https://doi.org/10.5194/tc-16-1383-2022>, 2022.
- Preuschmann, S., Blome, T., Görl, K., Köhnke, F., Steuri, B., El Zohbi, J., Rechid, D., Schultz, M., Sun, J., and Jacob, D.: How to develop new digital knowledge transfer products for communicating strategies and new ways towards a carbon-neutral Germany, *Adv. Sci. Res.*, 19, 51–71, <https://doi.org/10.5194/asr-19-51-2022>, 2022.
- Reinhart, V., Hoffmann, P., Rechid, D., Böhner, J., and Bechtel, B.: High-resolution land use and land cover dataset for regional climate modelling: a plant functional type map for Europe 2015, *Earth Syst. Sci. Data*, 14, 1735–1794, <https://doi.org/10.5194/essd-14-1735-2022>, 2022.
- Schuck-Zöller, S.; Bathiany, S.; Dressel, M.; El Zohbi, J.; Keup-Thiel, E.; Rechid, D.; Suhari, M. (2022) Process indicators in transdisciplinary research and co-creation - A formative evaluation scheme for climate services. *fteval Journal for Research and Technology Policy Evaluation* 53, doi: 10.22163/fteval.2022.541
- Sofiadis, G., Katragkou, E., Davin, E. L., Rechid, D., de Noblet-Ducoudre, N., Breil, M., Cardoso, R. M., Hoffmann, P., Jach, L., Meier, R., Mooney, P. A., Soares, P. M. M., Strada, S., Tölle, M. H., and Warrach Sagi, K.: Afforestation impact on soil temperature in regional climate model simulations over Europe, *Geosci. Model Dev.*, 15, 595–616, <https://doi.org/10.5194/gmd-15-595-2022>, 2022.

### 2021

- Breil, M., Davin, E. L., and Rechid, D.: What determines the sign of the evapotranspiration response to afforestation in European summer?, *Biogeosciences*, 18, 1499–1510, <https://doi.org/10.5194/bg-18-1499-2021>, 2021.
- Bühler MM, Sebald C, Rechid D, Baier E, Michalski A, Rothstein B, Nübel K, Metzner M, Schwieger V, Hars J-A, Jacob D, Köhler L, in het Panhuis G, Tejeda RCR, Herrmann M, Buziek G. Application of Copernicus Data for Climate-Relevant Urban Planning Using the Example of Water, Heat, and Vegetation. *Remote Sensing*. 2021; 13(18):3634. <https://doi.org/10.3390/rs13183634>
- Coppola, E., Raffaele, F., Giorgi, F. et al. Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. *Clim Dyn* (2021). <https://doi.org/10.1007/s00382-021-05640-z>
- Dreier, N.; Nehlsen, E.; Fröhle, P.; Rechid, D.; Bouwer, L.M.; Pfeifer, S. Future Changes in Wave Conditions at the German Baltic Sea Coast Based on a Hybrid Approach Using an Ensemble of Regional Climate Change Projections. *Water* 2021, 13, 167. <https://doi.org/10.3390/w13020167>
- Langendijk, G. S., Rechid, D., Sieck, K. & Jacob, D. (2021) Added value of convection-permitting simulations for understanding future urban humidity extremes : case studies for Berlin and its surroundings. *Weather Clim. Extrem.* 33, 100367.
- Reinhart, V., C.C. Fonte, P. Hoffmann, B. Bechtel, D. Rechid, J. Boehner (2021) 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 Observation and Geoinformation*, Volume 94, 2021,102221,ISSN 0303-2434, <https://doi.org/10.1016/j.jag.2020.102221>.
- Sieck, K., Nam, C., Bouwer, L. M., Rechid, D., and Jacob, D.: Weather extremes over Europe under 1.5 and 2.0 °C global warming from HAPPI regional climate ensemble simulations, *Earth Syst. Dynam.*, 12, 457–468, <https://doi.org/10.5194/esd-12-457-2021>, 2021.

### 2020

- Breil, M., Rechid, D., Davin, E.L., de Noblet-Ducoudré, N., Katragkou, E., Cardoso, R.M., Hoffmann, P., Jach, L.L., Soares, P.M.M., Sofiadis, G., Strada, S., Strandberg G., Tölle, M.H., Warrach-Sagi K. (2020): The opposing effects of re/af-forestation on the diurnal temperature cycle at the surface and in the lowest atmospheric model level in the European summer. *J. Climate* 1–58. <https://doi.org/10.1175/JCLI-D-19-0624.1>
- Ciarlo, J. M., Coppola, E., Fantini, A., Giorgi, F., Gao, X., Tong, Y., Glazer, R. H., Torres Alavez, J. A., Sines, T., Piche lli, 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>
- 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>

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>

Steuri, B., Blome, T., Bülow, K., El Zohbi, J., Hoffmann, P., Petersen, J., Pfeifer, S., Rechid, D., and Jacob, D.: Behind the scenes of an interdisciplinary effort: conception, design and production of a flyer on climate change for the citizens of Hamburg, *Adv. Sci. Res.*, 17, 9–17, <https://doi.org/10.5194/asr-17-9-2020>, 2020.

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 (2020) Assessing mean climate change signals in the global CORDEX-CORE ensemble. *Clim Dyn* (2020). <https://doi.org/10.1007/s00382-020-05494-x>

Weber, T., Bowyer, P., Rechid, D., Pfeifer, S., Raffaele, F., Remedio, A. R., et al. (2020). Analysis of compound climate extremes and exposed population in Africa under two different emission scenarios. *Earth's Future*, 8, e2019EF001473. <https://doi.org/10.1029/2019EF001473>

Zahid M, El Zhobi J, Viktor E, Rechid D, Schuck-Zöllner S, Keup-Thiel E, Jacob D (2020) Evaluation of Climate Services: Enabling Users to Assess the Quality of Multi-model Climate Projections and Derived Products. In: Leal Filho W., Jacob D. (eds) *Handbook of Climate Services*. Climate Change Management. Springer, Cham. [https://doi.org/10.1007/978-3-030-36875-3\\_10](https://doi.org/10.1007/978-3-030-36875-3_10)

### 2019

Langendijk, G.S.; Rechid, D.; Jacob, D. (2019) 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. <https://doi.org/10.3390/atmos10120730>

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- DEKLIM - QUIRCS: Quantifizierung von Ungenauigkeiten regionaler Klima- und Klimaänderungssimulationen. Abschlussbericht des Projektes QUIRCS gefördert durch das Deutsche Klimaforschungsprogramm DEKLIM "Klimaentwicklung – Vom Verständnis der Variabilität zur Prognose" des BMBF Förderkennzeichen: 01LD0026

### Publications: Selected articles

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### Publications: Selected data sets

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