

PERSONAL INFORMATION



Prof. Dr. Daniela Jacob

📍 Climate Service Center Germany (GERICS), Helmholtz-Zentrum Hereon, Fischertwiete 1, 20095 Hamburg, Germany

☎ +49 40 226 338 406 📠 +49 171 510 03 38

✉ d.jacob@hereon.de

🌐 www.climate-service-center.de

📅 **Date of birth** 20 June 1961 | 🇩🇪 **Nationality** German | 🏠 **Civil state** Married, one daughter

Visiting professor

at Leuphana Universität Lüneburg, Faculty of Sustainability
Scharnhorststraße 1, 21335 Lüneburg, Germany

H-Index

55 (Scopus) 28 October 2021

WORK EXPERIENCE

- SINCE 2016** Visiting Professor at Leuphana Universität Lüneburg, Faculty of Sustainability, Lüneburg, Germany
- SINCE 2015** Director of Climate Service Center Germany (GERICS), Helmholtz-Zentrum Hereon (former: Helmholtz-Zentrum Geesthacht), Hamburg, Germany
- 1995 – 2015** Founder and leader of the wind energy consultant *anemos-jacob*
- 1993 – 2015** Scientist, Max-Planck-Institute for Meteorology, Hamburg, Germany
- 2014 – 2015** Acting Director, Climate Service Center 2.0, Helmholtz-Zentrum Geesthacht, Hamburg, Germany
- 2013 – 2014** Deputy Director, Climate Service Center, Helmholtz-Zentrum Geesthacht, Hamburg, Germany
- 2010 – 2014** Department Head, Climate Service Center, Helmholtz-Zentrum Geesthacht, Hamburg, Germany
- 2009 – 2013** Adjunct Professor for Regional Climate Change, University of Bergen, Norway (Professor II, Secondary employment)
- 1992** Visiting scientist with Dr. Terry Clark, NCAR, Boulder, Colorado, USA
Simulation of snow storms with the Clark model using the two-way nesting technique
- 1991 – 1992** Post-Doc position, GKSS Research Center, Geesthacht, Germany
- 1990 – 1995** Co-Founder and leader of the wind energy consultant *anemos*

EDUCATION AND TRAINING

- MAY 1991** PhD. Dissertation, Universität Hamburg, Meteorology: “Numerische Simulation der Wolkenbildung in einer Land-Seewind-Zirkulation”
- 1986 – 1991** PhD student, GKSS Research Center, Geesthacht, Supervisor: Prof. Dr. Hartmut Graßl
- NOV 1986** Diploma. Thesis: Simulation der Smog-Episode im Januar 1985
- 1980 – 1986** Studies of Meteorology. Technical University Darmstadt

PERSONAL SKILLS

- MOTHER TONGUE** German
- FURTHER LANGUAGES** English: Fluent in reading, writing and understanding
- COMMUNICATION SKILLS** Excellent in scientific dialogues, interviews, panel discussions, presentations and media contacts

Curriculum Vitae Daniela Jacob

ORGANISATIONAL SKILLS AND LEADERSHIP Excellent: lead of regional climate modelling development since more than 25 years (WMO-WCRP-CORDEX), department lead at the Max-Planck Institute for Meteorology with growing size of the department, lead of GERICS with growing size and relevance, lead of various networks, German Future Earth national committee lead since 2019

COMMERCIAL EXPERIENCE Creation and leadership of the wind energy consultancies anemos (1990-1995) and anemos-jacob, later anemos-jacob GmbH (1995-2015)

COMMUNITY SERVICES AND CONTRIBUTION TO WORKING GROUPS AND ADVISORY BOARDS

-
- 2019 – 2022 Chair of the coordination group of the Klimacampus Hamburg
 - 2017 – 2022 Member of Science Review Group (SRG) of the Met Office Hadley Centre (MOHC)
 - SINCE 2021 Member of the External Advisory Board of the eFlows4HPC Project
 - SINCE 2021 Honorary Fellow of Euro-Mediterranean Center on Climate Change (CMCC)
 - SINCE 2021 Chair of the Scientific Climate Advisory Board of the Hamburg Senate
 - SINCE 2021 Member of the Partner*innenkreis of the tdAcademy
 - SINCE 2021 ECMWF-Fellow (Focus of Fellowship work: Regional climate modelling and climate services)
 - 2021 Member of Wissenschaftliches Kuratorium des Bürgerrates Klima
 - 2020 – 2021 Member of Search and Selection Committee for the ‘Physical Sciences’ of the Körber Foundation European Science Prize
 - 2019 – 2021 Member of European Commission’s Mission Board on Adaptation to Climate Change including Societal Transformation
 - 2015 – 2021 Member of the Scientific Advisory Board of the Neumann Institute for Computing (NIC)
 - 2015 – 2021 Member of the Scientific Advisory Panel of Euro-Mediterranean Center on Climate Change (CMCC)
 - 2015 – 2021 Member of WASCAL Scientific Advisory Committee
 - SINCE 2020 Member of working group “Hochschulkommunikation” der Hochschulrektorenkonferenz (HRK)
 - SINCE 2020 Member of Beirat zur „Machbarkeitsstudie Klimaplan“ of the Hamburg Senate
 - SINCE 2020 Co-Chair of Wissenschaftsplattform Nachhaltigkeit 2030
 - SINCE 2020 Member of DFG Fachkollegium Atmosphären-, Meeres- und Klimaforschung (FK313)
 - SINCE 2020 Member of Advisory Board of Hamburg Wasser
 - 2019 – 2020 Co-Patronage for launch of 3. Hamburger Zukunftspreis 2020 des Zukunftsrates Hamburg
 - SINCE 2019 Leading member of Helmholtz Earth and Environment Working Group on High Performance Computing and member since 2011
 - SINCE 2019 Member of Editorial Board of Future Earth’s „Our future on Earth“
 - SINCE 2019 Member of Advisory Board iCLIMATE Aarhus University Interdisciplinary Centre for Climate Change
 - SINCE 2019 Chair of Deutsches Komitee für Nachhaltigkeitsforschung in Future Earth (DKN)
 - SINCE 2019 Board member of Deutsche Gesellschaft für Meeresforschung (DGM)
 - SINCE 2019 Member of Wissenschaftlicher Beirat Klimaschutz und Klimafolgenanpassung des Freistaats Thüringen
 - SINCE 2019 Member of Advisory Board Climate Change Graz, University of Graz, Austria

- SINCE 2019 Member of the Earth League
- 2019 Member of the Expert Advisory Board of the Copernicus Roadmap for European Climate Projections
- 2017 – 2019 Ex-officio member of the Earth League
- 2015 – 2019 Member of the “Thüringer Klimarat”
- 2015 – 2019 Member of the Scientific Advisory Board of the Helmholtz Centre for Environmental Research (UFZ)
- SINCE 2018 Member of Editorial Board of Future Earth’s “State of our Planet”
- 2017 – 2018 Coordinating Lead Author, IPCC SR1.5
- 2006 – 2018 Member of the Scientific Advisory Board of the Wegener Center for Climate and Global Change, University of Graz, Austria
- SINCE 2017 Member of Transdisciplinary Advisory Board (TAB) of the Joint Programming Initiative “Connecting Climate Knowledge for Europe” (JPI Climate)
- SINCE 2017 Member of Deutsches Komitee für Nachhaltigkeitsforschung in Future Earth (DKN)
- 2011 – 2016 Scientific Member of Kommission Wasserforschung (KOWA), DFG
- SINCE 2015 Founding Editor-in-Chief for Elsevier Journal *Climate Services*
- SINCE 2015 Member of the Peer Review Board of the Neumann Institute for Computing (NIC)
- 2015 Member of Science Advisory Committee of the 4th Adaptation Futures conference
- 2014 – 2015 Member of Expert Group for the EU Roadmap on Climate Services, European Commission
- 2014 – 2015 Member of Nationale Plattform Zukunftsstadt (NPZ)
- 2007 – 2015 Review Panel Member of the European Research Council (ERC)
- SINCE 2014 Member of CORDEX Scientific Advisory Team (since 2020 Co-Chair)
- SINCE 2014 Member of Wissenschaftlicher Beirat “klimafakten.de“
- 2012 – 2014 Member of the Jury “Renewable Energy Award”
- 2010 – 2014 Lead Author, IPCC WGII AR5
- 2010 – 2014 Founding Editor-in-Chief of the Journal *Atmosphere*
- SINCE 2011 Coordinator of the EURO-CORDEX initiative (together with Eleni Katragkou, Aristotle University of Thessaloniki, and Stefan Sobolowski, Bjerknes Centre for Climate Research)
- 2006 – 2011 Member of the IOW Scientific Advisory Board, Baltic Sea Research Institute, Warnemünde, Germany
- 2005 – 2010 Member of the BALTEX Science Steering Group (BSSG)
- 2007 – 2009 Member of the UN Expert Group on Climate Change and Water (WWAP)
- 2004 – 2009 Member of the ENSEMBLES Management Board
- 2007 – 2008 BALTEX, Co-Chair of the Working Group on BALTIC GRID
- 2007 Member of the Int. Science Advisory Council of the Netherlands National Research Programme Climate Changes Spatial Planning
- 2007 Expert Reviewer for the Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2002 – 2005 DEKLIM-speaker for the area Baltic Sea
- 2002 – 2003 Member of the Scientific Steering Committee of ProMed, Project Mediterranean
- SINCE 1994 Scientific leader of model development and application of the regional climate model REMO

Curriculum Vitae Daniela Jacob

(COMPLETED)

- KIRA SCHULZ Analyse von Gesundheitsindizes für Europa im wandelnden Klima (2015)
- THOMAS REMKE On the variability in a regional climate model using dynamical downscaling with frequent reinitializations (2014)
- JULIANE PETERSEN Rückwirkungen von Landnutzung und Bewässerung auf das simulierte lokale und regionale Klima der Metropolregion Hamburg (2012)
- BASTIAN EGGERT Auswirkungen der Oberflächeneigenschaften in REMO auf die Simulation der unteren Atmosphäre (2011)
- STEPHANIE FIEDLER Model Performance and Climate Change Assessment with REMO and REMO-HAM in East Asia (2011)
- KATHARINA KLEHMET Klima in Ostafrika – Modellvalidierung und Untersuchung regionaler Charakteristika (2009)
- RICHARD SCHMITT Schneelast an Stromleitungen – Heute und in Zukunft (2009)
- IVY FRINGER Untersuchung der Auswirkungen der Landnutzungsänderung / Landoberflächenänderung in Westafrika auf das Klima mit Hilfe des Regionalen Klimamodells REMO (2008)
- JÖRN ALEXANDER Rückkoppelungseffekte der Vegetation auf das Klima der Barentssee-Region im regionalen Modell REMO (2006)
- TANJA BLOME Simulationen zum Klima der Barents-See-Region: Heutiges Klima und mögliche Klimaänderungen durch eine abgeschwächte THC im Nordatlantik (2005)
- AHMED QURESHI Sensitivity Study of Different Land Use Changes in the Elbe River Basin (2005)
- PETRA GÜNNEWIG Die Atmosphärische Grenzschicht in Lidarmessungen und REMO-Simulationen (2004)
- PAULA POEPPLE Validierung der simulierten Wolkenstruktur an Hand von Beobachtungen aus der BBC Messkampagne (2004)
- EVA MAZURKEWITZ Jahresgang der Landoberflächendaten – Aufbereitung für den Mosaic-Ansatz (2003)
- DIANA RECHID Untersuchung zur Parameterisierung von Landoberflächen im regionalen Klimamodell REMO (2001)
- SUSANNE PFEIFER Validierung des regionalen Klimamodells REMO anhand eines extremen Schneefallereignisses im Dezember 1998 über Südschweden (2001)
- PHILIP LORENZ Simulation von Starkniederschlägen während des Oderhochwassers 1997 mit REMO (1999)

SUPERVISOR OF PHD STUDENTS (ONGOING WITH WORKING TITLES)

- ROBIN SCHWEMMLE The combined effects of climate change and adapted agricultural management on water quality (Universität Freiburg i. Br.)
- KATRIN ZIEGLER Implementierung von verschiedenen Änderungen der Landoberflächenparameter in das hochaufgelöste Klimamodell REMO (Universität Würzburg)
- TANIA Y. GUILLÉN BOLAÑOS What are the potential ways of improving assessment of progress on climate adaptation?
- CRISTOBAL REVECO Usability: the practice of using climate information
- GABY LANGENDIJK Towards improved climate change information for urban areas following a regional-to-local climate modelling and data analysis approach

SUPERVISOR OF PHD STUDENTS (COMPLETED)

- LENNART MARIEN Towards well-balancing the regional hydrostatic climate model REMO (2020, Leuphana,

- Lüneburg)
- MARIUS STANKOWEIT Assessing the Risks of Climate Change on Electricity Grid Infrastructure (2020, Leuphana, Lüneburg)
- THOMAS REMKE Assessing climate change impacts on wind energy financing (2020, Leuphana, Lüneburg)
- BASTIAN EGGERT Improvements and uncertainties in high-resolution climate simulations (2018, Leuphana, Lüneburg)
- JONI-PEKKA PIETIKÄINEN Aerosols and climate: from regional to global modelling (2015, University of Eastern Finland)
- THOMAS RAUB The Water and Heat Cycles in a Coupled Ocean-Atmosphere-Model for the Baltic Sea (2014, Universität Hamburg)
- CHRISTINE RADERMACHER Causes for regional changes in heavy precipitation over Europe (2013, Universität Hamburg)
- ARMELLE R. REMEDIO Connections between the mesoscale convective systems and the regional scale flows in South America (2013, Universität Hamburg)
- KEVIN SIECK Internal Variability in the Regional Climate Model REMO (2013, Universität Hamburg)
- SWANTJE PREUSCHMANN Regional surface albedo characteristics - analysis of albedo data and application to land-cover changes for a regional climate model (2012, Universität Hamburg)
- ALBERTO ELIZALDE The Water Cycle in the Mediterranean Region and the Impact of the Climate Change (2011, Universität Hamburg)
- ANDREAS HÄNSLER Impact of climate change on the coastal climate of South-Western Africa (2011)
- PHILIP LORENZ Einfluss der Zwei-Wege Nestung auf die Ergebnisse globaler und regionaler Klimasimulationen (2011, Universität Hamburg)
- FAHAD SAAED Impact of irrigation on South Asian monsoon climate (2011)
- KATHARINA BÜLOW Zeitreihenanalyse von regionalen Temperatur- und Niederschlagssimulationen in Deutschland (2009, Universität Hamburg)
- BORBOLA GÁLOS Analysis of forest-climate interactions, applying the regional climate model REMO (2009, University of West Hungary, Sopron)
- RUUD HURKMANS Effects of climate variability and land use changes on the water budget of large river basins (2009, Wageningen University, Member of the committee for the examination, external reviewer)
- CLAAS TEICHMANN Climate and Air Pollution Modelling in South America with Focus on Megacities (2009, Universität Hamburg)
- HOLGER GÖTTEL Einfluss der nicht-hydrostatischen Modellierung und der Niederschlagsverdriftung auf die Ergebnisse regionaler Klimamodellierung (2008, Universität Hamburg)
- DIANA RECHID On biogeophysical interactions between vegetation phenology and climate simulated over Europe (2008, Universität Hamburg)
- SVEN KOTLARSKI A subgrid glacier parameterization for use in regional climate modelling (2007, Universität Hamburg)
- CAROLYN NARAYAN IMPRS-Stipendiatin, Atmosphärischer CO₂-Transport (2006, Universität Hamburg, co-advisor)
- SUSANNE PFEIFER Modelling cold cloud processes with the regional climate model REMO (2006, Universität Hamburg)
- TIDO SEMMLER Der Wasser- und Energiehaushalt der arktischen Atmosphäre (2002, Universität Hamburg)
- SUSANNE BAUER Atmosphären-Chemiemodellierung mit dem Modell GESIMA (2001, Universität Hamburg, co-advisor)
- RENATE HAGEDORN Ein gekoppeltes Atmosphären-Ozean-Modell für das Ostsee- Einzugsgebiet (2000, Christian-Albrechts-Universität zu Kiel, co-advisor)
- ANDREAS ROESCH Assessment of the Land Surface Scheme in Climate Models with Focus on Surface Albedo and Snow Cover (1999, ETH Zürich, co-advisor)

MEMBERSHIPS

Deutsche Meteorologische Gesellschaft (DMG)
European Geophysical Union (EGU)
Deutsche Gesellschaft für Meeresforschung (DGM)

THIRD-PARTY
FUNDED PROJECTS

BMBF CARBOSTORE (Carbon Storage Capacity) (2021 – 2024)
Technologieplattform H₂Mare (Verbundprojekt PtX-Wind & Verbundprojekt TransferWind) (2021 – 2025)
CS4eXtremes (Climate Services for Extremes) (2020 – 2023)
NUKLEUS (Querschnitt regionale Klimamodellierung, BMBF Fördermaßnahme RegKlim) (2020 – 2023)
WIRKsam (wiss. Koordination BMBF Fördermaßnahme RegKlim) (2020 – 2023)
ProPolis – Grundlagen der Operationalisierung (2019 – 2022)
Klimapolis Laboratory – Joint Laboratory on Urban Climate, Water and Air Pollution: Modelling, Planning, Monitoring, Social learning (2018 – 2021)
GROW-Verbundprojekt ViWA – Virtual Water Values: Multiskaliges Monitoring der globalen Wasserressourcen und Optionen für ihre effiziente und nachhaltige Nutzung (2017 – 2020)
MiKlip II – Mittelfristige Klimaprognosen II: Development of an internationally competitive decadal climate prediction system (2015 – 2019)
UseUClim: Review of practical and user serviceability of an urban climate model to foster climate proof urban development (2016 – 2019)
HAPPI-DE: Klima- und Klimafolgenprojektionen bei 1.5°C gegenüber 2°C Erwärmung im Rahmen der HAPPI-Initiative (2017 – 2018)
GLACINDIA: Water related effects of changes in glacier mass balance and river run-off in western Himalaya, India: past, present and future (2014 – 2016)
ReKliEs-De – Regionale Klimaprojektionen Ensemble für Deutschland (2013 – 2016)
MiKlip – Mittelfristige Klimaprognosen: Development of an internationally competitive decadal climate prediction system (2011 – 2015)
SASSCAL – Southern African Science Service Centre for Climate Change and Adaptive Land Management (2013 – 2015)
TFO – The Future Okavango: Scientific support for sustainable land and resource management in the Okavango basin (2010 – 2015)
Im Förderschwerpunkt KLIMZUG: KLIMZUG-NORD, Querschnittsthema KLIMA: Robustheit von Klimaänderungsmustern und Rückwirkungen von Anpassungsmaßnahmen auf das regionale Klima (2009 – 2014)
C3Grid – INAD Towards an Infrastructure for General Access to Climate Data: Zur Unterstützung des Workflows der Erdsystemforscher (2010 – 2013)
Zum Schwerpunktthema GLOWA-DANUBE: Regionale Klimamodellierung – Entwicklung und Bereitstellung von REMO-Szenarien zum Klimawandel des Wasserkreislaufs im Einzugsgebiet der Oberen Donau (2007 – 2010)
Zum Schwerpunktthema BIOTA-SÜD: Interactions between land use changes and the local and regional climate (2003 – 2009)

GENUS: Einfluss des Klimawandels auf biogeochemische Zyklen und ökologische Prozesse im Schelfgebiet des Südostatlantiks (2009 – 2012): Hochaufgelöste Simulationen der atmosphärischen Strömungsbedingungen über dem Benguela- Küstenauftriebsgebiet während der Kleinen Eiszeit, der Mittelalterlichen Wärmeperiode (1970 – 2008)

Zur Ostseeforschung: BALTIMOS, Koordination des DEKLIM-Verbundes, Entwicklung und Validierung eines gekoppelten Modellsystems in der Ostseeregion (2001 – 2005)

Zur Quantifizierung von Unsicherheiten in der regionalen Klimamodellierung: IVECC, innerhalb DEKLIM: Einfluss der Vegetation auf regionale Klima- und Klimaänderungssimulationen (2001 – 2005)

Zum Schwerpunktthema GLOWA-ELBE: Regionale Klimasimulationen zur Untersuchung der Niederschlagsverhältnisse in heutigen und zukünftigen Klimaten (2000 – 2003)

Zum MAPP Demonstrationsprojekt: Wolken- und Feuchteparameter aus MERIS-Daten zur Assimilation in mesoskalige Modelle und deren Validierung (2000 – 2001)

Zur Modellierung von Rheinhochwassern: Regionales Klimamodell zur meteorologischen und hydrologischen Vorhersage extremer Ereignisse am Beispiel des Rhein-Einzugsgebietes (1999 – 2000)

Zum Troposphärenforschungsschwerpunkt (TFS): Entwicklung und Anwendung einer Modellhierarchie zur Berechnung chemischer Prozesse in der Troposphäre unter heutigen und zukünftigen Emissionsbedingungen (1996 – 2000)

Zum Schwerpunktthema Wasserkreislauf: Modellierung und numerische Experimente für BALTEX (1994 – 1997)

BMVBS KLIWAS: Auswirkungen des Klimawandels auf Wasserstraßen und Schifffahrt – Entwicklung von Anpassungsoptionen (2009 – 2013)

UBA UFOPLAN-Vorhaben 20441138: Klimaauswirkungen und Anpassung in Deutschland- Phase1: Erstellung regionaler Klimaszenarien für Deutschland (2004 – 2007)

**HELMHOLTZ:
HZG I2B-FONDS** GERICS Department Coastal Climate Services (2019 – 2021)

**HELMHOLTZ:
HZG WISSENS- UND
TRANSFERSFONDS** Bridging the Gap (2017 – 2019)

**HELMHOLTZ:
IMPULS- UND
VERNETZUNGSFONDS** ADAPTER – ADAPT TERrestrial Systems (2019 – 2023)

Digital Earth – Towards Smart Monitoring and Integrated Data Exploration of the Earth System (2018 – 2021)

ESM – Advanced Earth System Modelling Capacity: To contribute solving grand challenges mankind is facing by developing and applying innovative Earth system modelling capacity (2017 – 2019)

Exzellenznetzwerk zum Clusterantrag CLICSS (Cluster of Excellence “Climate, Climatic Change, and Society”) (2018 – 2020)

HI-CAM (Klima-Initiative): Cluster 1 "Net-Zero-2050" (2019 – 2021)

DFG CLICSS (Cluster of Excellence “Climate, Climatic Change, and Society”) – Wissenstransfer (2019 – 2025)

CLICSS (Cluster of Excellence “Climate, Climatic Change, and Society”) – Sustainable Land-Use Scenarios (C2) (2020 – 2023)

DKN (Deutsches Komitee für Nachhaltigkeitsforschung in Future Earth) Geschäftsstelle (2019 – 2022)

Consultant, deputy and sub project leader in „Sonderforschungsbereich 512: Tiefdruckgebiete und Klimasystem des Nordatlantik“ (1998 – 2010)

Curriculum Vitae Daniela Jacob

EIFER (EUROPEAN INSTITUTE FOR ENERGY RESEARCH, KARLSRUHE)	ANKE: Anpassungsstrategien an rezente und zu erwartende Klimatrends für EnBW (2006 – 2009)
GIZ (DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT)	CONGO: Klimawandelszenarien für das Kongobecken (2010 – 2012)
IASS E.V.	POTATO: Participatory development and testing of strategies to reduce climate vulnerability of poor farm households in East Africa through innovations in potato and sweet potato technologies and enabling policies (2008 – 2011)
LAND NIEDERSACHSEN LANDESFORSCHUNGS-FÖRDERUNG HAMBURG	Wissenschaftsplattform Nachhaltigkeit (2020 – 2022)
ROBERT-BOSCH-STIFTUNG	Im Forschungsverbund KLIFF, QT1: Dynamical Downscaling (2009 – 2013)
	Hybride - Chancen und Herausforderungen von neuen genomischen Kombinationen (2017 – 2020)
	Mapping zur Förderung Nachhaltigkeitsforschung (2019)

INTERNATIONAL THIRD-PARTY FUNDED PROJECTS

EU: H2020	OPERANDUM – OPEn-air laboRAtoRies for Nature baseD solUtions to Manage hydro-meteo risks (2018 – 2022)
	EUCP – EUropean Climate Prediction system: producing actionable climate information for risk-based planning (2017 – 2021)
	ClimatEurope – Linking science and society: European climate observations, modelling, and services (2015 – 2021)
	ERA4CS – European Research Area for Climate Services (2016 – 2021)
	NAIAD (Nature Insurance Value: Assessment and Demonstration (2016 – 2020)
	IMPRES – Improving predictions and management of hydrological extremes (2015 – 2019)
	EU-MACS – European Market for Climate Services (2017 – 2018)
	EU-MARCO – Market Research for Climate Services Observatory (2017 – 2018)
EU: EU LIFE	LOCAL ADAPT - Integration of climate change adaptation into the work of local authorities (2016 – 2021)
EU: COPERNICUS CLIMATE CHANGE SERVICE/ ECMWF	PRINCIPLES – Producing RegIoNal ClImate Projections Leading to European Services (2017 – 2021)
	GLORIOUS – GLObal useRs In the cOpernicUs climate change Service (2017 – 2019)
	DECM – Data Evaluation for Climate Models (2016 – 2018)
	Clim4Energy – Providing climate products tailored for the energy sector (2016 – 2017)
	SECTEUR (Sector Engagement for C3S, translating European User Requirements (2016 – 2017)
EU: FP7	CLIPC – Climate Information Platform for Copernicus (2013 – 2016)
	IMPACT2C – Quantifying projected impacts under 2°C warming (2011 – 2015)
	ECLISE – Enabling Climate Information Services for Europe (2011 – 2014)
	CCTAME – Climate Change: Terrestrial Adaptation and Mitigation in Europe (2008 – 2013)
	ACQWA – Assessing Climatic Change and impacts on the quantity and Quality of Water (2008 – 2013)
	CARBO-EXTREME – The terrestrial Carbon cycle under Climate Variability and Extremes a Pan-European synthesis (2009 – 2013)
	Climate for Culture – Damage risk assessment, macroeconomic impact and mitigation strategies for sustainable preservation of cultural heritage in the times of climate change (2009 – 2013)

COMBINE – Comprehensive Modelling of the Earth System for Better Climate Prediction and Projection (2009 – 2013)

ATP – Arctic Tipping Points (2009 – 2012)

CLARIS-LPB – A Europe-South America Network for Climate Change Assessment and Impact Studies in La Plata Basin 2008 – 2012)

HIGHNOON – Adaptation to changing water resources availability in northern India with Himalayan glacier retreat and changing monsoon pattern (2009 – 2012)

SafeLand – Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies (2009 – 2012)

LAIC – Land-Atmosphere Interactions in China (2009 – 2011)

EU: FP6 CIRCE – Climate change and Impact Research: the Mediterranean environment (2007 – 2010)

CLAVIER – Climate Change and Variability: Impact on Central and Eastern Europe (2006 – 2009)

NEWATER – New Approaches to Adaptive Water Management under Uncertainty (2005 – 2009)

CLARIS – A Europe-South America Network for Climate Change Assessment and Impact Studies (2004 – 2007)

ENSEMBLES – Ensemble-based Predictions of Climate Changes and their Impacts (2004 – 2009)

GEMS – Global and regional Earth system monitoring using Satellite and in-situ data (2004 – 2010)

EU: FP5 BALANCE – Climate Change Vulnerabilities in the Barents Region: Linking Arctic natural resources, climate change and economies (2002 – 2005)

PRUDENCE – Prediction Uncertainties describing European Climate Change and Effects (2001 – 2004)

EU: FP4 NEWBALTIC I and II – Numerical Studies of the Energy and Water Cycle of the Baltic Region (1996 – 2000)

PEP – Long Term Measurements and Modelling of Evaporation and Precipitation (1997 – 2000)

SFINCS – Implementation and Validation of Improved Flux Parameterizations in Climate and Weather Forecasting Models (1997 – 2000)

FUTURE EARTH E3S – Extreme Events and Environments from Climate to Society (2014 – 2016)

AUSTRIAN SCIENCE HighEnd: Extremes: The Future of Extreme Precipitation Events in the Alpine Region under High End Climate Change Conditions (2014 – 2017)

NHCM-2: Non-Hydrostatic Climate Modelling, Part II (2013 – 2015)

TEACHING ACTIVITIES

SS 2020 Climate Adaptation (für BSc- und MSc-Studenten, mit den GastdozentInnen Diana Rechid, Claas Teichmann). Leuphana University of Lüneburg

WS 2019/20 Stadtklima im Klimawandel zwischen Klimaschutz und Anpassung. Leuphana University of Lüneburg

WS 2018/19 Stadtklima im Klimawandel zwischen Klimaschutz und Anpassung. Leuphana University of Lüneburg

WS 2016/17 Stadtklima im Klimawandel zwischen Klimaschutz und Anpassung. Leuphana University of Lüneburg

WS 2015/16 Wie erhalten wir ein bioklimatisch lebenswertes Stadtklima? Leuphana University of Lüneburg

Oct 2008 Autumn School on Climate change, causes and Impacts. Cyrus

Sept 2007 1st International Summer School on the MPI-M Earth System Modelling Framework. Introduction to Modelling. Hamburg

Curriculum Vitae Daniela Jacob

- WS 2005/06 Simulation of Ecosystems. Hochschule für Angewandte Wissenschaften, Hamburg
- WS 2004/05 Simulation of Ecosystems. Hochschule für Angewandte Wissenschaften, Hamburg
- Summer 2002 Teaching activity during the Advanced Study Course IRISEN-II (Integrated Regional Impact Studies in the European North: Basic Issues, Methodologies and Regional Climate Models (IRISEN-II))
- WS 1996/97 Seminar Regional Modelling. Universität Hamburg

FURTHER ACTIVITIES

- 2021 17 Interviews for magazines, newspapers, radio and TV (as of 01 June 2021)
- 2020 10 Interviews for magazines, newspapers, radio and TV
- Since 2019 Participation in Innovations-Allianz Hamburg
- 2019 16 Interviews for magazines, newspapers, radio and TV (one dpa interview on the summer heat wave was cited at least in 280 sources and reached over 1 million 150,000 readers or listeners)
- 2018 26 Interviews for magazines, newspapers, radio and TV (one dpa interview and the media echoes of the IPCC SR1.5 were cited in more than 100 media sources each, reaching more than 150,000 readers and listeners)
- Since 2009 Reviewer for the Deutsche Forschungsgemeinschaft (DFG)
- Since 2006 Organisation of several workshops related to the use of regional climate model (REMO) data for impact studies for wind energy consultants, DWD, regional administrations and universities
- Since 2006 Several interviews for newspapers, magazines, the radio and TV
- Since 1997 Coordination Committee Member of CLIMPACT (Regional Climate Modelling and Integrated Global Change Impact Studies in the European Arctic) - a European Science Foundation Network
- 2016 – 2018 Reviewer for BMVIT, Austria (Project “RESOLW - Renewable Energy Forecast by new Solarradiation- and Windnowcastingsystems“ at Joanneum Research Graz)
- 2009 Member of the editorial advisory board of the International Journal of Climate Change Strategies and Management
- 2009 Member of the editorial board of Atmosphere
- 2009 Reviewer for the Swedish Research Council
- 2009 Reviewer for the Austrian Climate Research Program
- 2008 – 2009 Participation in Rundgespräch: Regionale Klimamodelle, Nationales Komitee für Global Change Forschung
- 2008 Member of the Scientific Committee of the on-line Conference “Climate 2008”
- 2008 Participation in the development of DAS (Deutsche Anpassungsstrategie an den Klimawandel)
- 2007 External reviewer for Natural Sciences and Engineering Research Council of Canada (NSERC)
- 2007 US State Department/ Bureau of Intelligence and Research, Workshop on Risky Climate: Disaster Preparedness and Foreign Policy in the 21st Century
- 2006 Reviewer for the Dutch Technology Foundation
- 2006 Reviewer for Canadian Foundation of Climate and Atmospheric Science
- 2006 Reviewer for the European Science Foundation
- 2004 Review for proposals of National Science Foundation (NSF)
- 2003 Reviewer for the Israel Science Foundation
- 2002 External examiner in the Licentiate seminar at the University of Göteborg
- 2001 Organisation of the national REMO workshop in Hamburg
- 1996 Organisation of the national REMO workshop in Hamburg

- 1993 Co-Editor for Energy and Water Cycles in the Climate System. Edited by Ehrhard Raschke, Daniela Jacob, Springer-Verlag Berlin
- 1991 Organisation of the NATO-ASI (Energy and Water Cycles in the Climate System) in Glücksburg
- 1988 Organisation of the 4th Seminar of Mesoscale Simulation Models of the Atmosphere in Geesthacht

REVIEWS FOR INTERNATIONAL JOURNALS

Acting as reviewer for more than 30 international scientific journals.

CONTRIBUTIONS TO CONFERENCES

Contributing regularly to major scientific conference worldwide.

SELECTED LECTURES IN 2006 TO 2021

- 2021**
- 15.10.2021 **DBU Online-Salon** "Historische Parks und Bauwerke als Klimaschützer sichtbar machen": Talk on challenges with regard to climate projections
 - 12.10.2021 **24. Hannah-Arendt-Tage**, Hannover: Opening Keynote talk "Es wird Zeit - jedes halbe Grad zählt!"
 - 29.09.2021 **Hamburg Wasser Fachforum Spezial und Hamburg Wasser Fachbeiratssitzung**: Talk "Höchste Zeit für eine klimasensible Stadtentwicklung"
 - 25.09.2021 **Die Grünen Schleswig-Holstein**: Panel discussion "Die Erde brennt!"
 - 20.09.2021 **Hamburger Klimawoche** (hkw): Panel discussion
 - 15.09.2021 **Forstwissenschaftliche Tagung**, München: Talk "Es wird Zeit!"
 - 14.09.2021 Die Grünen Geesthacht: Panel discussion: „Wie schaffen wir noch das 1,5 Grad-Ziel?“
 - 14.09.2021 **Ausschuss für Erneuerbare Energien, Landkreis Lüneburg**: Talk on „GERICS-Landkreisausblicke“
 - 07.09.2021 **Science Europe**: Workshop "Science for the Green Transition": Talk "Leveraging scientific knowledge in a coherent way for policy makers to inspire action"
 - 24.08.2021 **60. ERSA-Kongress** „Territorial Futures. Visions and scenarios for a resilient Europe“: Keynote talk "Time to act!"
 - 28.06.2021 **ECMWF, Webinar**: Challenges for Climate Services
 - 19.06.2021 **Regionalkonferenz Klimawandel**: Es ist Zeit
 - 29.04.2021 **Vattenfall BA Wind Climate Webinars**: Climate Change - current knowledge & needed actions from decision makers, industry & society with special focus on renewable energy
 - 25.03.2021 **Enhancing Climate Services for Infrastructure Investments (CSI) – Global Forum 2021**: Keynote Speech on Costa Rican Climate Fact Sheet
 - 10.03.2021 **Zukunftskonferenz 2021 (JOANNEUM RESEARCH)**: Panel discussion "Produktion in Zeiten des Klimawandels"
 - 25.02.2021 **EU Climate Adaptation Strategy – science policy community workshop**: panel discussion "Smarter adaptation. Improve knowledge and manage uncertainty"

Curriculum Vitae Daniela Jacob

- 09.02.2021 **Austrian Horizon Europe Campaign: "Join our Community: Horizon Europe starts":** Mission Adaptation on Climate Change: A climate resilient Europe – Scope & State of Play
- 08.02.2021 **Nationale Auftaktkonferenz zum Start des EU-Rahmenprogramms für Forschung und Innovation „Horizont Europa“:** Panel discussion „We have a mission“
- 01.02.2021 **IX. Top Management Programm (Bayerische Staatskanzlei):** Klimaänderungen in Deutschland und Bayern
- 19.01.2021 **MetOffice, Science Review Group speaker seminar:** Challenges for Climate Services
- 06.01.2021 **NDR Redezeit – Hörer fragen, Experten antworten: Im Schatten von Corona – Was wird aus dem Klimaschutz?:** Discussion

2020

- 09.12.2020 **JPI Climate Scoping Forum Symposium 2020: Providing Knowledge for a climate neutral and resilient Europe:** Panel discussion "Evidence-based decision making towards a climate neutral and resilient Europe"
- 02.12.2020 **Extraordinary Session of the WCRP Joint Scientific Committee (JSC-41B): „Home of Regional Information for Society“:** Regional Climate Information for Societies.
- 01.12.2020 **Lehrerfortbildung der Wilhelm- und Else-Heraeus-Stiftung:** Auswirkungen der globalen Erwärmung um 1,5° C über dem vorindustriellen Niveau
- 24.11.2020 **Vorstellung der neuen FONA-Strategie durch das BMBF:** Statement
- 22.10.2020 **EU-Workshop on "Elements of a Digital Twin on Climate Change Adaptation“:** Session lead on "Science & Technology Challenges"
- 15.10.2020 **Sheepandgoats2020 - Internationaler Kongress zur Zucht von Schaf und Ziege:** Global climate change: What to expect in the future?
- 07.10.2020 **Zukunftsdialo g der "ZEIT-Stiftung":** Wie teuer ist Fleischproduktion wirklich?
- 05.10.2020 **International Forum - The Architecture Environment Transformation after the Epidemic in Kaohsiung:** Co-Creating Climate Services
- 25.09.2020 **Petersberger Strategietage 2020:** "Klimafolgenabschätzung: Jedes Zehntelgrad zählt!". Perspektivvortrag
- 24.09.2020 **Klimawoche Tchibo:** Vortrag zum aktuellen Stand der Klimaforschung und den Erkenntnissen des IPCC-Sonderberichtes über 1,5 Grad Celsius globale Erwärmung
- 18.09.2020 **Deutsche IPCC-Koordinierungsstelle:** Vortrag zu den Erkenntnissen des IPCC-Sonderberichtes über 1,5 Grad Celsius globale Erwärmung
- 18.09.2020 **Tyndall Annual Meeting and Assembly:** An introduction to GERICS
- 10.09.2020 **Städte im Klimawandel - Hitze als globale und lokale Herausforderung/HeatResilientCity, Erfurt/Dresden:** Participation in web conference
- 28.08.2020 **European Form Alpbach: Europe as a Production Location in Times of Climate Change:** Panel discussion
- 12.07.2020 **Code4Green Hackathon, Berlin:** Jury-Funktion
- 25.06.2020 **Climate Policy Forum (TLV): Innovation and Green Technologies for the European Green Deal:** Remarks from Daniela Jacob
- 18.05.2020 **Horizon Europe Mission:** Presentation @Climateurope (digital)
- 07.05.2020 **re:publica (online), Livestream: „Klimakrise und nun?“:** Discussion
- 25.02.2020 **Soulworx ENERGIZER:** Klimawandel in Hamburg - Was können wir tun?
- 13.01.2020 **Universität zu Köln, Ringvorlesung im Studium Integrale:** Beobachtete Änderungen, Informationen zum Weltklimarat (IPCC) am Beispiel des Sonderberichts über 1,5 Grad C globale Erwärmung

- 07.01.2020 **KIWANIS-Club Herzogtum Lauenburg, Neujahrsempfang, Ratzeburg:** Warum wir den Klimawandel begrenzen müssen, wie wir es schaffen können, und was wir davon haben.
- 2019**
- 16.12.2019 **WBGU-Konferenz „Zukunft gestalten. Digital und nachhaltig“, Session 2 "Forschung: Digital. Nachhaltig – Chancen der Digitalisierung für Nachhaltigkeit", BMBF Berlin:** Keynote speech and panel discussion
- 11.12.2019 **Deutscher Bundestag: Sitzung des Parlamentarischen Beirates für nachhaltige Entwicklung, Berlin:** Keynote and discussion
- 27.11.2019 **Treffen der EU-Referent*innen der Helmholtz-Gemeinschaft, Brussels:** Adaptation to Climate Change, including Societal Transformation (Keynote speech on setting up the EU Mission Board 'Adaptation to Climate Change, including Societal Transformation')
- 26.11.2019 **Helmholtz autumn event: "Understanding tomorrow's climate: What science can tell us," Brussels:** Science talk
- 22.11.2019 **Vattenfall Business Area Heat Manager Meeting, Berlin:** Presentation and dialogue on climate change (live-streaming)
- 13.11.2019 **Süddeutsche Zeitung Wirtschaftsgipfel 2019: „Gemeinsam stark – Strong together!“, Berlin:** Panel discussion (Panel 13)
- 07.11.2019 **Europe's Strategic Choices, Session C "European Climate Action", Berlin:** Panel discussion
- 06.11.2019 **Helmholtz Horizons 2019 Symposium, Berlin: Klimawandel - vom Wissen zum Handeln:** Half a degree matters
- 05.11.2019 **Fraktion Bündnis 90/Die Grünen - AG Umwelt Infos, Berlin:** Talk on climate change, adaptation and GERICS' work, discussion
- 28.10.2019 **Hambacher Gespräche: KLIMA 4.0 - Umwelt- und klimapolitische Herausforderungen im 21. Jahrhundert:** Diskussion mit Bundesminister a.D. Jürgen Trittin MdB zu klimatischen und klimapolitischen Entwicklungen
- 28.10.2019 **Asia Pacific Climate Service Workshop, Taiwan "The Quality and Future of Climate Services" :** Challenges for climate services (Keynote talk, live-streaming)
- 24.10.2019 **Nachhaltigkeitsministerium Österreich, Wien zu "Wasser im Wandel":** Wasser und Klimawandel aus Sicht der Forschung
- 22.10.2019 **TCCIP International Workshop on Climate Change, Belmont Forum, Taiwan:** Global warming of 1.5°C (Keynote talk, live-streaming)
- 21.10.2019 **KfW-Vortragsveranstaltung „Klimawandel in Afrika“, Frankfurt a.M.:** Climate change in Africa
- 18.10.2019 **European Young Leaders Alumni Meeting, Session "Climate action: talking the talk and walking the walk", Brussels:** Key note and panel discussion
- 17.10.2019 **"Friends of Europe" Roundtable, Brussels: „State of Europe high-level roundtable – Vision Innovation for Europe“:** Participation in „State of Europe high-level roundtable – Vision Innovation for Europe“
- 04.-06.10.2019 **Workshop on "Climate Change Impacts and Development Aid", Bergakademie der Deutschen Studienstiftung, Schwendisee, Switzerland:** Keynote talk on IPCC SR1.5 (live-streaming)
- 28.09.2019 **Hamburger Klimawoche, "Erdfragen sind Ehrenfragen - Was können wir gemeinsam gegen den Klimawandel tun?":** Panel discussion
- 24.-26.09.2019 **European Research & Innovation Days, Brussels: „Climate Science“ and in Co-Design Session „Horizon Europe Mission on Climate Adaptation“:** Panel discussion
- 17.09.2019 **iClimate (Aarhus University Interdisciplinary Centre for Climate Change) annual workshop 2019, Aarhus:** Challenges for climate services
- 15.09.2019 **Ruhrtriennale, Bochum: „There is no Planet B / Salon zu Klimaschutz und Gerechtigkeit“:** Talk on „IPCC SR 1.5“ and panel discussion

Curriculum Vitae Daniela Jacob

- 22.-24.08.2019 **European Forum Alpbach: Technologiegespräche 2019: Freiheit und Sicherheit:** Talk on „IPCC SR 1.5“. Participation in Fish Bowl Discussion “Our Health Caught Between Climate Crisis and Demography”. Talk and participation in paneldiscussion "Bioeconomy - essential for the future and security of mankind“
- 17.07.2019 **Ringvorlesung der TU München:** „Ergebnisse des IPCC-Sonderberichtes über 1,5°C globale Erwärmung“
- 21.06.2019 **BUND im Herzogtum Lauenburg, Naturpark Uhlenkolk, "Prognosen zum Klimawandel":** Auswirkungen des Klimawandels in Schleswig-Holstein
- 28.-31.05.2019 **ECCA Lissabon & JPI Side event:** Keynote talk about IPCC SR1.5 in opening plenary session ECCA: Keynote talk in JPI Climate Side Event
- 17.05.2019 **Global Platform Disaster Risk Reduction, Geneva:** Presentation and discussion on IPCC SR1.5: Challenges and reasons for action
- 19.03.2019 **DIN-Praxisworkshop "Anpassung von Normen an den Klimawandel", Frankfurt a.M.:** Global und europäisch: Der Klimawandel und seine Folgen
- 13.02.2019 **33. Oldenburger Rohrleitungsforum:** Plus 2°: dann leidet auch die Trinkwasserinfrastruktur!
- 08.02.2019 **Regionalforum "S-Futura '19", Sparkasse Aurich-Norden:** Podiumsdiskussion und Vortrag: Klimawandel - Widerstand zwecklos? Auswirkungen des weltweiten Klimawandels auf die Nordseeküste
- 04.02.2019 **Urania Vortragszentrum, Berlin:** Vortrag: Apocalypse not! – Wir können der Erderwärmung Einhalt gebieten
- 2018**
- 04.-07.12.2018 **COP 24, Katowice:** 6 talks on IPCC: SR 1.5 °C
- 29.11.2018 **Treffpunkt Erneuerbare Energien, Bucerius Law School, Hamburg:** IPCC: SR 1.5 °C
- 27.11.2018 **High Level Conference "EU research and innovation in our daily life", European Parliament Brussels:** Talk in session „A sustainable environment“ on IPCC: SR 1.5 °C
- 22.11.2018 **Virtual Climate Summit: Stepping up Climate Ambition to Meet the 1.5°C Warming Limit:** IPCC: SR 1.5 °C
- 22.11.2018 **ÖWAV-Seminar „Anpassungen an den Klimawandel – Maßnahmen der Wasserwirtschaft“, Vienna:** Keynote talk on IPCC: SR 1.5 °C
- 19.11.2018 **Akademie der Wissenschaften: "Extremwetter fordern die Städte heraus – Welche Maßnahmen bremsen den Klimawandel und befördern die Anpassung?", Hamburg:** Podiumsdiskussion
- 15.11.2018 **DFG-Rundgespräch „Climate Resilience“, Berlin:** Regionale Klimaextreme
- 13.11.2018 **BMBF Veranstaltung zur Förderbekanntmachung "Regionale Informationen zum Klimahandeln (ReglKlim), Bonn:** Bedarfe von Kommunen bezüglich Klimainformationen
- 07.11.2018 **ecosense, PG-Sitzung Umwelt & Klima, Berlin:** Vorstellung des IPCC-Sonderberichts SR1.5
- 23.10.2018 **VENRO & Klima-Allianz Konferenz "Jedes Zehntelgrad zählt: Gemeinsam handeln!", Berlin:** Die Ergebnisse des IPCC Sonderberichts SR1.5: Eine Übersicht
- 22.-23.10.2018 **3-Cluster-Konferenz „Ocean – Climate – Sustainability Research Frontiers“, Berlin:** Climate services: From “informing society” to “interacting with society
- 18.10.2018 **Friends of Europe: “Energy and Climate Summit 2018”, Brussels:** IPCC: SR 1.5 °C
- 17.-19.10.2018 **Second ClimatEurope Festival, Belgrad, Serbien:** IPCC: SR 1.5 °C (Keynote talk, live-streaming)
- 11.-12.10.2018 **International Federation of Red Cross & Red Crescent Societies, Climate Action Network: „Unpacking the findings of the IPCC 1.5° Report and the implications for policy and climate action“, Geneva :** IPCC SR 1.5

- 08.10.2018 **BMU/BMBF Diskussionsforum zur Veröffentlichung des Sonderberichts über 1,5°C globale Erwärmung, Berlin: IPCC: SR 1.5 °C**
- 09.08.2018 **Wissenschaftssommer „(K)ein prima Klima?“; Sylt: Mit Vollgas in den Klimawandel: In welcher Welt wollen wir leben?**
- 11.07.2018 **CDU Landkreis Harburg: Klimawandel in Norddeutschland – was müssen wir wissen, und was können wir tun?**
- 2017**
- 08.11.2017 **KfW-Symposium on „Climate Resilient Coastal Infrastructure Investments: Challenges and Opportunities“, Bonn (COP 23): Challenges and options for climate-resilient infrastructure investments in coastal zones**
- 25.07.2017 **Alpbach Technology Symposium, Alpbach/Tyrol: How does the 1.5°C hotter World look like?**
- 17.07.2017 **Konferenz Energielandschaften Norddeutschland „Modellierung erneuerbarer Energieressourcen“, Hamburg: Klimainformationen als Grundlage zur Anpassungsunterstützung von kritischer Energieinfrastruktur - Relevanz und Anforderungen an die Modellierung**
- 10.07.2017 **Deutsches Krebsforschungszentrum (DKFZ), Heidelberg :“Ensembles, Klimaprojektionen und Prognosen – Warum widersprechen sich die Ergebnisse?**
- 27.06.2017 **Beraterstammtisch Energie und Umwelt „Anpassung an den Klimawandel in Hamburg“: Klimawandel - Chancen und Risiken für Unternehmen**
- 05.05.2017 **Jahresversammlung der Braunschweigischen Wissenschaftlichen Gesellschaft: Klima und Meer - Globaler Wandel - Lokale Konsequenzen**
- 25.04.2017 **European Geosciences Union General Assembly 2017, Wien: Prototype development of user specific climate services**
- 02.02.2017 **Jahresempfang der Grünen Ratsfraktion, Kiel: 100% Klimaschutz!? Wie können sich Kommunen an die Herausforderungen und Chancen des Klimawandels anpassen?**
- 2016**
- 08.11.2016 **Sino-German Symposium, Hamburg: Climate Service: Innovation and Smart Solution**
- 02.11.2016 **Regionalkonferenz „Klimawandel Norddeutschland“, Hannover: Das Pariser Klimaabkommen und seine regionale Bedeutung**
- 16.03.2016 **Mitgliederversammlung des Niedersächsischen Städte- und Gemeinbundes, Rosengarten: Bedeutung des Klimawandels für Kommunen**
- 21.01.2016 **BUE: „Klimawandel ist Realität – Chancen, Risiken und Maßnahmen für Hamburger Unternehmen“, Hamburg: Was kommt auf uns zu? Klimaprojektionen bis 2050 und 2100**
- 2015**
- 05.10.2015 **DKRZ Festveranstaltung zur Einweihung des HLRE-3, Hamburg: Hochleistungsrechner und Datenspeicher - Grundlagen für den Klimaschutzservice**
- 12.09.2015 **Jahrestagung UNIVEG, Bremen: Entwicklung von Klimaschutzservices für Wirtschaft, Politik und Gesellschaft**
- 08.07.2015 **Our common future under climate change, Paris: Cross- sectoral analyses for Europe as summarized in the IPCC AR5 Europe Chapter and under 2°C global warming IMPACT2C**
- 17.03.2015 **Launching Workshop: A European Roadmap for Climate Services, Brussels: Dealing with the barriers in providing climate services - AMBASSADOR**
- 08.01.2015 **KlimaCampus Kolloquium, Hamburg: Climate Services-Innovation for smart solutions**
- 2014**
- 16.10.2014 **23. Zukunftsforum: Klimawandel – eine Herausforderung für die öffentliche Sicherheit,**

- Zukunftsforum öffentliche Sicherheit e.V., Berlin:** Klimawandel geht alle an
- 06.10.2014 **14th EMS Annual Meeting & 10th European Conference on Applied Climatology (ECAC), Prag:** From consultation to co-production - the integration of user needs in the development of climate science
- 07.07.2014 **„Der Klimawandel in Niedersachsen“ Jugendtagung der Evangelischen Akademie Loccum, Rehburg-Loccum:** Welche Auswirkungen wird der Klimawandel in den verschiedenen Regionen Niedersachsens haben? Welche Probleme ergeben sich daraus?
- 19.05.2014 **IPCC AR5 Report of WG II: A Comprehensive Background and next steps, Bonn:** Climate change in Europe
- 28.04.2014 **European Geosciences Union General Assembly 2014, Wien:** Climate Change Signals in the EURO-CORDEX Simulations
- 28.04.2014 **Bericht des Weltklimarats IPCC 2014, BMWFW:** Klimawandel in Europa
- 02.-03.04.2014 **Mittel- und norddeutsche Trockenregionen im Klimawandel, Leipzig:** Neues aus WG2
- 01.04.2014 **DE-IPCC Veranstaltung zu WG2, Berlin:** Regionale Aspekte des AG2-Berichts und ihre Bedeutung für Deutschland
- 26.02.2014 **DVGW Forum Sichere Wasserversorgung, Mülheim:** Auswirkungen des Klimawandels auf die Wasserversorgung- Stand der Forschung
- 24.02.2014 **Internationalen Konferenz CLARR 2014 – Auf dem Weg zu einer klimaangepassten und resilienten Region:** Neues vom 5. Sachstandsbericht des IPCC: Zeit zum Handeln
- 21.02.2014 **NGO-Briefing: Vorbereitung auf Teil II und III des Weltklimaberichts, Berlin:** Regionale Auswirkungen des Klimawandels in Deutschland/Europa
- 13.02.2014 **CSC-Jahrestagung, Potsdam:** Zwischen Bandbreitenmodellen und stabilen Trends – erwartete Klimaänderungen
- 2013**
- 07.11.2013 **International Conference on Regional Climate - CORDEX 2013, Brussels:** From GCM to RCM- from ESM to RESM
- 03.09.2013 **“Vom globalen Klimawandel zu regionalen Anpassungsstrategien” vom Forschungsverbund KLIFF – Klimafolgenforschung in Niedersachsen, Göttingen:** Regionaler Klimawandel: wo stehen wir heute?
- 09.04.2013 **Deutsche Informationsveranstaltung zum IPCC-AR5-WGII, Bonn:** Regionale Aspekte – Beispiel Europa
- 20.02.2013 **CSR Leader's Circle on Sustainable Water Management, Berlin:** Climate Change: from global to local action!
- 2012**
- 27.11.2012 **Workshop: Terrestrial water systems under climate change: available knowledge and knowledge demands, Hamburg:** Soil moisture and climate change
- 08.11.2012 **2. Regionalkonferenz Klimaanpassung Küstenregion, Bremerhaven:** Stand der Klimaforschung – vom globalen zum regionalen Klima
- 28.09.2012 **Fachkonferenz aus Anlass des 100-jährigen Geburtstags von Budnikowsky, Hamburg:** Klimawandel: Herausforderungen an Industrie und Handel
- 14.07.2012 **Hydroinformatics Conference HIC-2012, Hamburg:** Regional Climate Change Projections: Bridging Global Climate Change and Local Applications
- 20.03.2012 **7. Extremwetterkongress, Hamburg:** Neues zu regionalen Klimaänderungen
- 2011**
- 02.11.2011 **KLIMZUG Statuskonferenz, Berlin:** KLIMZUG-NORD – Strategische Anpassungsansätze zum

Klimawandel in der Metropolregion Hamburg

- 12.04.2011 **6. Extremwetterkongress, Hamburg:** Was wissen wir heute über den Klimawandel in den Metropolregionen?
- 30.03.2011 **Klimaanpassung Küstenregion – Regionalkonferenz des Bundes und der norddeutschen Küstenländer, Hamburg:** Zukünftige Auswirkungen des Klimawandels auf die norddeutsche Küstenregion
- 20.01.2011 **CSC Thementagung: Unter 2 Grad: Wie lassen sich der Klimawandel und seine Folgen begrenzen?, Leipzig:** 2 Grad globale Erwärmung: Was bedeutet das für unser Klima

2010

- 29.09.2010 **ENERGIE-LANDSCHAFTEN!?! – Fallen oder Chancen für ländliche Räume, 31. Bundestagung der Deutschen Landeskulturgesellschaft DLKG, Husum:** Klimafolgen und Energielandschaften“
- 02.09.2010 **UBA Anpassungskonferenz, Dessau-Roßlau:** Regionale Klimamodelle
- 25.08.2010 **Hamburger Streitgespräch zum Klimawandel, Hamburg:** Das wird schon nicht so schlimm werden! Wieviel Katastrophenszenario braucht der Mensch?
- 22.06.2010 **DWD-Workshop: Umgang mit Klimaprojektionen, Offenbach:** Regionale Klimamodellensembles
- 31.05.2010 **CES-Conference on Future Climate and Renewable Energy:** Impacts, Risks and Adaptation, Oslo: „Global climate change with regional consequences: challenges for adaptation
- 28.05.2010 **IMEA 7, Hamburger Feuerkasse, Hamburg:** Klimaforschung: Stand und konkrete Relevanz
- 23.04.2010 **Conference: Continents under Climate Change, Berlin:** Global warming below 2°C relative to pre-industrial level: How might climate look like in Europe?
- 12.04.2010 **Workshop „Extremwetterereignisse und Ertragsausfälle in der Landwirtschaft“, CSC, Hamburg:** Meteorologische Forschung zu Extremwetterereignissen – eine Herausforderung für die regionale Klimamodellierung
- 18.02.2010 **Expert workshop Climate modelling and Climate services, German Delegation, Washington, US:** Regional climate modelling for climate projections and climate services
- 21.01.2010 **Vorlesung an der Senioren-Universität der HAW, Hamburg:** Wann wird's mal wieder richtig Sommer oder ist dies ein normaler Winter?
- 14.01.2010 **Workshop „Klimafolgenforschung zur Beurteilung der Auswirkungen von konvektiven Extremwetterereignissen auf die Schadenlast in Deutschland“, CSC, Hamburg:** Konvektive Extremereignisse – eine Herausforderung für die regionale Klimamodellierung

2009

- 09.11.2009 **Climate for Culture: Kick-Off meeting:** Global Climate change and Regional Consequences
- 05.11.2009 **SFB-512 Abschluss Symposium 'Klimasystem Nordatlantik':** Analyse des Wasserhaushaltes nordatlantischer Zyklonen und ihr Einfluss auf das europäische Festland
- 29.10.2009 **Seminar at University of Bergen:** Challenges in regional climate modelling
- 19.08.2009 **NW2050 Auftaktveranstaltung:** Auswertung des Klimawandel in der Region – Klimaeffekte bis 2100
- 16.06.2009 **COSMOS General Assembly:** Challenges in regional climate modelling
- 04.06.2009 **BayCEER-Kolloquium an der Universität Bayreuth:** Global Climate change and Regional Consequences
- 13.-14.05.2009 **Fehmarn Sund Belt – Workshop on Climate Scenarios:** Climate Scenarios – a regional perspective
- 26.03.2009 **IBM-Symposium zu Klimaberechnung und Risikomanagement, Hamburg:** Globaler Klimawandel und lokale Konsequenzen – neueste Erkenntnisse für den deutschsprachigen Raum

Curriculum Vitae Daniela Jacob

- 18.-19.03.2009 **KLIWAS-Statuskonferenz des Bundesministeriums für Verkehr, Bau und Stadtentwicklung:** Methoden, Möglichkeiten und Grenzen der regionalen Klimamodellierung
- 19.-21.02.2009 **IBA-Labor Klimafolgenmanagement, Hamburg:** Aktuelle Erkenntnisse zur Klimaentwicklung in Norddeutschland
- 21.01.2009 **Besuch der XXV. US Bosch Fellows am KlimaCampus, Hamburg:** Regionale Klimaszenarien für die untere Mittelelbe
- 2008**
- 09.12.2008 **GIWEP: Klimamodelle, Mühlheim/Ruhr:** Globaler Klimawandel und regionale Konsequenzen
- 28.11.2008 **Bauphysik-Tagung 2008, Düsseldorf:** Klimawandel bis 2100 – eine Studie für Deutschland
- 28.11.2008 **Wissenschaftsforum Hamburg, Kopf oder Zahl?:** Mit dem Klimawandel rechnen: Modelle für Schutz- und Anpassungs-Strategien
- 15.11.2008 **Jahrestagung "Natur und Kultur in der Elbtalau", Hitzacker:** Regionale Klimaszenarien für die untere Mittelelbe
- 10.11.2008 **Institutsseminar Leuphana, Suderburg:** Globaler Klimawandel und regionale Konsequenzen
- 06.11.2008 **AREVA Energietechnik, Seminarvortrag, Bremerhaven:** Globaler Klimawandel und regionale Konsequenzen
- 28.10.2008 **Institutsseminar IMK-ASF, Karlsruhe:** Globaler Klimawandel und regionale Konsequenzen
- 04.09.2008 **AON Rück, Seminarvortrag, Hamburg:** Globaler Klimawandel und regionale Konsequenzen
- 23.07.2008 **EBZ, Stuttgart:** Das Wetter morgen
- 21.07.2008 **Workshop: Hamburger Strategie zur Anpassung an den Klimawandel:** Existiert der Klimawandel wirklich? Klimatische Wirkungen in der Metropolregion Hamburg
- 24.06.2008 **DWA Landesverband Bayern, Symposium „Klimawandel - Was kann die Wasserwirtschaft tun?“, Nürnberg:** Regionale Klimamodellierung in Deutschland
- 08.06.2008 **Go for Climate, Initiative zum Klimaschutz, Hamburg:** Existiert der Klimawandel wirklich?
- 03.04.2008 **Augsburger Arbeitskreis, Hamburg:** Globaler Klimawandel und lokale Konsequenzen – neueste Erkenntnisse für den deutschsprachigen Raum
- 10.03.2008 **NAFEMS 5th Anniversary CFD Seminar, Wiesbaden:** Globaler Klimawandel und lokale Konsequenzen: Regionale Klimaprojektionen schlagen die Brücke zwischen den Skalen
- 29.02.2008 **Klimafachtagung, Hochschule für Angewandte Wissenschaften Hamburg:** Klimawandel: Klimatische Wirkungen in der Metropolregion Hamburg
- 26.02.2008 **Agrarforum Husum, Europ. Akademie Schleswig-Holstein:** Das Klima verändert die Welt- und wir uns mit ihr. Verantwortung für die Gesellschaft
- 17.01.2008 **Geowissenschaftliche Vorträge am Gymnasium Heidberg, Hamburg:** Wird es in Zukunft nur noch Bilderbuchsommer geben?
- 16.01.2008 **Kreisbauernverband Schwarzenbek:** Regionale Auswirkungen des Klimawandels auf die Landwirtschaft
- 2007**
- 21.11.2007 **Alpentagung, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit, Benediktbeuren:** Klimawandel im Alpenraum – Heute und in der Zukunft
- 16.11.2007 **Klausurtagung Bundesministerium für Verkehr, Bau und Stadtentwicklung Potsdam:** Globaler Klimawandel und regionale Konsequenzen: Der IPCC- Bericht und regionale Konsequenzen
- 14.11.2007 **CAIWA 2007, Int. Conference on Adaptive & Integrated Water Management, Basel:** Downscaling climate information for water resources management: uncertainty and challenges
- 06.11.2007 **Klimawandel in Deutschland: Strategien der Anpassung, Umweltbundesamt Dessau:** Klimaänderungen in Deutschland

- 05.11.2007 **“Report on the findings from the IPCC working groups I, II and III: Climate Change Research Seminar, Norwegian Ministry of Education and Research, Düsseldorf:** Possibilities and limitations for downscaling of regional climate scenarios
- 18.10.2007 **SPD Bad Bevensen:** Globaler Klimawandel-Regionale Konsequenzen
- 04.10.2007 **BASF Ludwigshafen:** Regionale Klimamodellierung und Klimaprojektionen für das 21. Jahrhundert
- 01.10.2007 **Climate Change and Vectors, Umweltbundesamt Berlin:** Climate Modelling: Global and regional scenarios
- 27.09.2007 **International Conference Climate Change and Spatial Planning, De Bilt:** Global and European Perspective: “General Progress and Remaining Uncertainties”
- 12.09.2007 **Wissenschaftssommer Sylt:** Globaler Klimawandel und lokale Konsequenzen
- 01.08.2007 **World Water Week Stockholm:** From global climate change to climate change projections in Europe
- 15.08.2007 **Niedersächsischer Landtag, Hannover: Wege zum Erhalt der Wertschöpfung durch den Transportweg Rhein, Dewitt&Company, Bonn:** Aktuelle meteorologische Kenntnisse und Perspektiven für das Rheineinzugsgebiet
- 25.06.2007 **Int. Conference Community Testing Facilities, Lolland, Dänemark:** A Critical View on the Baltic Sea Region’s Future
- 12.06.2007 **Parlament. Abend Bundesverband Deutsche Binnenschifffahrt, Berlin:** Klimawandel in Europa - Auswirkungen auf die deutschen Bundeswasserstraßen
- 20.05.2007 **Bremer Energie-Konsens, Bremen:** Globaler Klimawandel und lokale Konsequenzen
- 09.05.2007 **Bündnis 90/Die Grünen, Rathaus Stuttgart:** Das Wetter morgen
- 26.04.2007 **Kernkraftwerke Isar, Essenbach:** Klimaentwicklung unter regionalen Aspekten
- 16.04.2007 **DB AG, Strategieklausur Potsdam:** Globaler Klimawandel und lokale Konsequenzen’
- 08.03.2007 **BMU Conference, Berlin: Time to adapt – Climate change and the European Water Dimension:** Climate change and water resources: Observed and projected trends at regional scale in Europe
- 22.02.2007 **Bucerius Law School, Hamburg:** Regionale Klimamodellierung
- 12.02.2007 **Wegener Center Graz, Seggau Workshop on Local Impacts of Climate Change:** Downscaling: From global climate change to climate change projections in Europe
- 31.01.2007 **Landfrauenverein Stelle u. Umgebung, Winsen:** Globaler Klimawandel-Regionale Auswirkungen
- 26.01.2007 **TuTech, Hamburg-Bergedorf:** Climate Change in Northern Europe
- 23.01.2007 **Alpentagung, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit, Benediktbeuren:** Klimawandel im Alpenraum – Heute und in der Zukunft
- 18.01.2007 **Klausurtagung Bundesministerium für Verkehr, Bau und Stadtentwicklung Potsdam:** Globaler Klimawandel und regionale Konsequenzen: Der IPCC- Bericht und regionale Konsequenzen
- 2006**
- 14.12.2006 **HAW Seminar, FH Bergedorf:** Globaler Klimawandel mit lokalen Konsequenzen – Regionale Klimamodelle schlagen die Brücke zwischen den Skalen
- 12.12.2006 **Kolloquium Institut für Ostseeforschung Warnemünde:** Globaler Klimawandel mit lokalen Konsequenzen: Womit müssen wir rechnen?
- 05.12.2006 **Mitgliederversammlung Windenergie-Agentur Bremen:** Globaler Klimawandel – Regionale Auswirkungen auch in Deutschland?
- 15.11.2006 **Brauner Risk, Mutenz, CH:** Extremwetter auch in der Schweiz? Was die neue regionale Klimaprognose für die Schweiz erwarten lässt

Curriculum Vitae Daniela Jacob

- 09.11.2006 **TLUG, Jena:** Eine klimatische Vorschau für Deutschland bis zum Jahr 2100 mit dem regionalen Klimamodell REMO
- 06.11.2006 **ZUFO Symposium, Münster:** Klimawandel
- 17.10.2006 **UBA Klimagipfel, Berlin:** Regionale Klimaszenarien für Deutschland
- 16.10.2006 **WVV Würzburg:** Globaler Klimawandel mit lokalen Konsequenzen – womit müssen wir rechnen?
- 10.10.2006 **E.ON Kernkraft, Goslar:** Klimaentwicklung unter regionalen Aspekten
- 26.09.2006 **EC JRC, Brüssel:** Overview of Climate Change Projections in Europe
- 12.09.2006 **DWS Investment Konferenz, Zürich:** Globaler Klimawandel mit lokalen Konsequenzen – Womit müssen wir rechnen?
- 11.09.2006 **Österreichischer Umweltdachverband, Neukirchen a. Großvenediger:** Klimawandel – Globale und regionale Klimamodelle
- 01.09.2006 **Kreisverwaltung Plön, Agenda 24:** Mögliche Klimaveränderung in Norddeutschland: was wissen wir wirklich?
- 29.08.2006 **Vortrag vor Berufsschullehrern, Universität Hamburg:** Globaler Klimawandel mit lokalen Konsequenzen: Womit müssen wir rechnen?
- 11.04.2006 **Annaberger Klimatage:** „eviu der regionalen Klimamodellierung
- 27.04.2006 **Freising, University Weihenstephan:** Wie wirkt sich der Klimawandel auf die Niederschlagsereignisse aus?

PUBLICATIONS

- SUBMITTED** Bühler, M.M., Sebald, C., Rechid, D., Baier, E., Michalski, A., Rothstein, B., Nübel, K., Metzner, M., Schwieger, V., Harrs, J.-A., **Jacob, D.**, Köhler, L., in het Panhuis, G., Tejada, R., Herrmann, M., Buziek, G. (2021): Development of low-threshold tools and efficient work processes for data acquisition, processing, evaluation, and application by municipalities. Submitted in July 2021 to Remote Sensing MDPI (Manuscript ID: remotesensing-1321972).
- Giorgi, F., Coppola, E., **Jacob, D.**, Teichmann, C., Abba Omar, S., Ashfaq, M., Ban, N., Bulow, K., Bukovsky, M., Bunttemeyer, L., Tereza Cavazos, T., Ciarlo, J., Perfirio da Rocha, R., Das, S., Di Sante, F., Evans, J. P., Gao, X. Giuliani, G., Glazer, R. H., Hoffmann, P., Im, E.-S., Langendijk, G., Lierhammer, L., Llopart, M., Mueller, S., Luna-Nino, R., Nogherotto, R., Pichelli, E., Raffaele, F., Reboita, M., Rechid, D., Remedio, A., Remke, T., Sawadogo, W., Sieck, K., Torres-Alavez, J. A., Weber, T. (2021): The CORDEX-CORE EXP-I initiative: Description and highlight results from the Initial analysis. Submitted in 2021 to Bulletin of the American Meteorological Society (BAMS-D-21-0119)
- Hewitt, C., Bessembinder, J., Buonocore, M., Dunbar, T., Garrett, N., Kotova, L., New, S., Newton, P., Parfitt, R., Buontempo, C., Doblas-Reyes, F., Guglielmo, F., **Jacob, D.**, Kjellström, E., Krzic, A., Martins, H., Pietrosant, A., Terrado, M. (2021): Coordination of Europe's climate-related knowledge base: networking and collaborating through interactive events. Submitted in June 2021 to Climate Services. CLISER-D-21-00055
- Kotova, L., Manez Costa, M., **Jacob, D.**, Hewitt, C., Newton, P. Garrett, N., New, S., Parfitt, R., Dunbar, T., Bessembinder, J., Toumi, R., Buonocore, M., Krzic, A., Terrado, M. (2021): Climate Europe festival: an innovative way of linking science and society. Submitted in June 2021 to Climate Services. CLISER-D-21-00067
- Kumar, P., Mishra, A., Dubey, A., Javed, A., Saharwardi, Md., Kumari, A., Sachan, D., Cabos, W., **Jacob, D.**, Sein, D. (2021): Regional Earth System Modelling Framework for CORDEX-South Asia: An integrated assessment for Indian summer monsoon rainfall. Submitted in August 2021 to AGU Journal of Advances in Modelling Earth Systems. 2021MS002771
- Kumar, P., Mallick, S., Mishra, A., Dubey, A., Tiwari, G., Sein, D., Cabos, W., **Jacob, D.** (2021):

Regional Earth System Model for CORDEX-South Asia: A Comprehensive Assessment of Regional and Global Earth System Model. Submitted in August 2021 to Int. J. of Climatology. JOC-21-0652

Mengis, N., Kalhori, A., Simon, S., Harpprecht, C., Baetcke, L., Prats, E., Schmidt-Hattenberger, C., Stevenson, A., Dold, C., El Zohbi, J., Borchers, M., Thrän, D., Korte, K., Gawel, E., Dolch, T., Heß, D., Yeates, C., Thoni, T., Markus, T., Schill, E., Xiao, M., Köhnke, F., Oschlies, A., Förster, J., Görl, K., Dornheim, M., Brinkmann, T., Beck, S., Bruhn, D., Li, Z., Steuri, B., Herbst, M., Sachs, T., Monnerie, N., Pregger, T., **Jacob, D.**, Dittmeyer, R. (2021): Net-zero CO2 Germany - A retrospect from the year 2050". Submitted in July 2021 to Earth's Future.

Sein, D. V., Dvornikov, A. Y., Martyanov, S. D., Cabos, W., Ryabchenko, V. A., Groeger, M., **Jacob, D.**, Kumar, A., Kumar, P. (2021): Indian ocean marine biogeochemical variability and its feedback on simulated South Asia climate. Submitted July 2021 to Earth System Dynamics. esd-2021-64

Tamoffo, A.T., Amekudzi, L.K., Weber, T., Vondou, D.A., Yamba, E.I., **Jacob, D.** (2021): Mechanisms of Rainfall Biases in two CORDEX-CORE Regional Climate Models at rainfall peaks in the Central Equatorial Africa. Submitted in June 2021 to J. of Climate. JCLI-D-21-0487

Weber, T., Cabos, W., Sein, D., **Jacob, D.** (2021): Benefits of simulating precipitation characteristics over Africa with a regionally-coupled atmosphere-ocean model . Submitted in June 2021 to Climate Dynamics.

2021 Bühler, M.M., Sebald, C., Rechid, D., Baier, E., Michalski, A., Rothstein, B., Nübel, K., Metzner, M., Schwieger, V., Harris, J.-A., **Jacob, D.**, Köhler, L., in het Panhuis, G., Rodriguez Tejada, R., Herrmann, M., Buziek, G. (2021): Application of COPERNICUS data for climate-relevant urban planning using the example of water, heat, and vegetation, Remote Sens. 2021, 13(18), 3634. DOI: 10.3390/rs13183634.

Coppola, E., Raffaele, F., Giorgi, F., Giuliani, G., Xuejie, G., Ciarlo, J., Sines, T. R., Torres, A., Das, S., di Sante, F., Pichelli, E., Glazer, R., Ashfaq, M., Bukovsky, M., Im, E.-S., **Jacob, D.**, Teichmann, C., Remedio, A., Remke, T., Kriegsmann, A., Buelow, K., Weber, T., Buntemeyer, L., Sieck, K., Rechid, D. (2021): Climate hazard indices projections based on CORDEX-CORE, CMIP5 and CMIP6 ensemble. Clim Dyn. DOI: 10.1007/s00382-021-05640-z.

De la Vara, A., Cabos, W., Sein, D. V., Teichmann, C., **Jacob, D.** (2021): Impact of air-sea coupling on the climate change signal over the Iberian Peninsula. Clim Dyn. DOI: 10.1007/s00382-021-05812-x

Jacob, D., Goerl, K., Groth, M., Haustein, K., Rechid, D., Sieck, K., Wolff, M. (2021): Naturwissenschaftlicher Hintergrund der Erderwärmung: Wo stehen wir zurzeit? Wirtschaftsdienst 101(5), pp. 330-334. DOI: 10.1007/s10273-021-2911-8

Langendijk, G., 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 and Climate Extremes, 33, 100367. DOI: 10.1016/j.wace.2021.100367

Mishra, A. K., Kumar, P., Dubey, A. K., Javed, A., Saharwardi, M. S., Sein, D. V., Martyanov, S. D., **Jacob, D.** (2021): Impact of horizontal resolution on monsoon precipitation for CORDEX-South Asia: A regional earth system model assessment. Atmospheric Research 259, 105681. DOI: 10.1016/j.atmosres.2021.105681

Sieck, K., Nam, C., Bouwer, L. M., Rechid, D., **Jacob, D.** (2021): Weather extremes over Europe under 1.5 °C and 2.0 °C global warming from HAPPI regional climate ensemble simulations, Earth Syst. Dynam. 12, 457-468, 2021. DOI: 10.5194/esd-12-457-2021

Spinoni, J., Barbosa, P., Buchhignan, E.i, Cassano, J., Cavazos, T., Cescatti, A., Hesselbjerg Christensen, J., Christensen, O. B., Coppola, E., Evans, J., Forzieri, G., Geyer, B., Giorgi, F., **Jacob, D.**, Katzfey, J., Koenigk, T., Laprise, R., Lennard, C. J., Kurnaz, M. L. , Li, D., Llopart, M., McCormick, N., Naumann, G., Nikulin, G., Ozturk, T., Panitz, H.-J., Porfirio da Rocha, R., Solman, S. A., Syktus, J., Tangang, F., Teichmann, C., Vautard, R., Vogt, J. V., Winger, K., Zittis, G., Dosio, A. (2021): Global exposure of population and land-use to meteorological droughts under different

Warming Levels and Shared Socioeconomic Pathways: A Coordinated Regional Climate Downscaling Experiment-based study. *Int. J. of Climatology*. DOI: 10.1002/joc.7302

Stewart Ibarra, A. M., Hewitt, C., Winarto, Y. T., Walker, S., Keener, V. W., Bayala, J., Christel, I., Bloomfield, H., Halsnæs, K., **Jacob, D.**, Brasseur, G. P., Haigh, T., van den Hurk, B. (2021): Resilience through climate services. *One Earth Voices*, 4(8), 1050-1054. DOI: 10.1016/j.oneear.2021.08.002

Warszawski, L., Kriegler, E., Lenton, T.M., Gaffney, O., **Jacob, D.**, Klingensfeld, D., Koide, R., Mánez Costa, M., Messner, D., Nakicenovic, N., Schellnhuber, H.J., Schlosser, P., Takeuchi, K., Van Der Leeuw, S., Whiteman, G., Rockström, J. (2021): All options, not silver bullets, needed to limit global warming to 1.5°C: a scenario appraisal. *Environ. Res. Lett.* 16 (2021) 064037. DOI: 10.1088/1748-9326/abfeec

2020 Ciarlo, J. M., Coppola, E., Fantini, A., Giorgi, F., Gao, X., Tong, Y., Glazer, R. H., Alavez, J. A. T., 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., **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*. DOI: 10.1007/s00382-020-05400-5.

Jacob, D., Teichmann, C., Sobolowski, S., Katragkou, E., Anders, I., Belda, M., Benestad, R., Boberg, F., Buonomo, E., Cardoso, R. M., Casanueva, A., Christensen, O. B., Christensen, J. H., Coppola, E., Cruz, L. D., Davin, E. L., Dobler, A., Domínguez, M., Fealy, R., Fernandez, J., Gaertner, M. A., García-Díez, M., Giorgi, F., Gobiet, A., Goergen, K., Gómez-Navarro, J. J., Alemán, J. J. G., Gutiérrez, C., Gutiérrez, J. M., Güttler, I., Haensler, A., Halenka, T., Jerez, S., Jiménez-Guerrero, P., Jones, R. G., Keuler, K., Kjellström, E., Knist, S., Kotlarski, S., Maraun, D., van Meijgaard, E., Mercogliano, P., Montávez, J. P., Navarra, A., Nikulin, G., de Noblet-Ducoudré, N., Panitz, H.-J., Pfeifer, S., Piazza, M., Pichelli, E., Pietikäinen, J.-P., Prein, A. F., Preuschmann, S., Rechid, D., Rockel, B., Romera, R., Sánchez, E., Sieck, K., Soares, P. M. M., Somot, S., Srnec, L., Sørland, S. L., Termonia, P., Truhetz, H., Vautard, R., Warrach-Sagi, K. & Wulfmeyer, V. (2020): Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community. *Reg Environ Change* 20, 51 (2020). DOI: 10.1007/s10113-020-01606-9

Jacob, D. (2020): Future Trends in Climate Services. Book Chapter. In: *Handbook of Climate Services, Climate Change Management*, 515-519. ISBN 978-3-030-36874-6, ISBN 978-3-030-36875-3 (eBook). DOI: 10.1007/978-3-030-36875-3_3

Jacob, D., Bülow, D., Cortekar, J., Petersen, J. (2020): Klimawandel weltweit und in Deutschland. *Gesundheit und Gesellschaft - Wissenschaft (GGW)*, 20, 1, 7 - 14. ISSN: 1868-1492

Leal Filho, W. and **Jacob, D.** (eds.) (2020): *Handbook of Climate Services, Climate Change Management*. ISBN 978-3-030-36874-6, ISBN 978-3-030-36875-3 (eBook). DOI: 10.1007/978-3-030-36875-3_3

Sein, D.V, Gröger, M., Cabos, W., Alvarez-Garcia, F.J., S. Hagemann, Pinto, J.G., Izquierdo, A., de la Vara, A., Koldunov, N.V., Dvornikov, A.Y., Limareva, N., Alekseeva, E., Martinez-Lopez, B., **Jacob, D.** (2020). Regionally coupled atmosphere ocean marine biogeochemistry model ROM: 2. Studying the climate change signal in the North Atlantic and Europe. *Journal of Advances in Modeling Earth Systems*, 12, e2019MS001646. DOI: 10.1029/2019MS001646

Spinoni J., Barbosa P., Bucchignani E., Cassano J., Cavazos T., Christensen J. H., Christensen O. B., Coppola E., Evans J., Geyer B., Giorgi F., Hadjinicolaou P., **Jacob D.**, Katzfey J., Koenigk T., Laprise R., Lennard C.J., Kurnaz M.L., Delei L.I., Llopart M., McCormick N., Naumann G., Nikulin G., Ozturk T., Panitz H.-J., da Rocha R.P., Rockel B., Solman S.A., Syktus J., Tangang F., Teichmann C., Vautard R., Vogt J.V., Winger K., Zittis G., Dosio A. (2020): Future global meteorological drought hot spots: A study based on CORDEX data. *Journal of Climate*, 33, 9, 3635-3661. DOI: 10.1175/JCLI-D-19-0084.1

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. DOI: 10.5194/asr-

17-9-2020.

Teichmann, C., **Jacob, D.**, Remedio, A. R., Remke, T., Bunttemeyer, L., Hoffmann, P., Kriegsmann, A., Lierhammer, L., Bülow, K., Weber, T., Sieck, K., Rechid, D., Langendijk, G. S., Coppola, E., Giorgi, F., Ciarlo, J., Raffaele, F., Giuliani, G., Xuejie, G., Sines, T. R., Alavez, J. A. T., 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). DOI: 10.1007/s00382-020-05494-x.

Vautard, R., Kadygrov, N., Iles, C., Boberg, F., Buonomo, E., Buelow, K. G., Coppola, E., Corre, L., van Meijgaard, E., Nogherotto, R., Sandstad, M., Schwingshagl, C., Somot, S., Aalbers, E. E., Christensen, O. B., Ciarlo, J., Demory, M.-E., Giorgi, F., **Jacob, D.**, Jones, R. G., Keuler, K. G., Kjellström, E., Lenderink, G., Levavasseur, G., Nikulin, G., Sillmann, J., Sørland, S. L., Steger, C. H., Teichmann, C., Warrach-Sagi, K. & Wulfmeyer, V. (2020): Evaluation of the large EURO-CORDEX regional climate model ensemble. *JGR - Atmospheres*. DOI: 10.1029/2019JD032344

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

Zahid, M., El Zohbi, 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. Book Chapter. In: *Handbook of Climate Services, Climate Change Management*, 183-201. ISBN 978-3-030-36874-6, ISBN 978-3-030-36875-3 (eBook). DOI: 10.1007/978-3-030-36875-3_3

Zhu, S., Ge, F., Sielmann, F. Pan, M. T., Fraedrich, K., Remedio, A. R. C.; Sein, D. V., Jacob, D., Wang, H., Zhi, X. F. (2020): Seasonal temperature response over the Indochina Peninsula to a worst-case high-emission forcing: a study with the regionally coupled model ROM. *Theor Appl Climatol* 142, 613–622 (2020). DOI: 10.1007/s00704-020-03345-7.

Zhu, S., Remedio, A.R.C., Sein, D.V., Stielman, F., Ge, F., Xu, J., Peng, T., **Jacob, D.**, Fraedrich, K., and Zhi, X. (2020): Added value of the regionally coupled model ROM in the East Asian summer monsoon modeling. *Theor Appl Climatol* 140, 375–387 (2020). DOI: 10.1007/s00704-020-03093-8

2019 Hoegh-Guldberg, O., **Jacob, D.**, Taylor, M., Guillen Bolanos, T., Bindi, M., Brown, S., Camilloni, I.A., Diedhiou, A., Djalante, R., Ebi, K., Engelbrecht, F., Guiot, J., Hijioka, Y., Mehrotra, S., Hope, C.W., Payne, A.J., Pörtner, H.-O., Seneviratne, S.I., Thomas, A., Warren, R., Zhou, G. (2019): The human imperative of stabilizing global climate change at 1.5°C. *Science*, 365 (6459). DOI: 10.1126/science.aaw6974

Jacob, D., Blome, T., Guillén Bolaños, T., Petersen, J., Preuschmann, S. Steuri, B. (2019): The report on 1.5°C global warming-relevant aspects for climate services. *Climate Services*. DOI: 10.1016/j.cliser.2019.100105

Jacob, D., Guillen Bolanos, T., Petersen, J., Preuschmann, S., Steuri, B., Viktor, E. (2019): Keiner kann mehr sagen, wir hätten von nichts gewusst - Ein Überblick zum Sonderbericht über 1,5 °C globale Erwärmung. *Mitteilungen DMG 2 / 2019* (Deutsche Meteorologische Gesellschaft)

Kotova L., **Jacob D.**, Leissner J., Mathis M., Mikolajewicz U. (2019): Climate Information for the Preservation of Cultural Heritage: Needs and Challenges. In: Moropoulou A., Korres M., Georgopoulos A., Spyrakos C., Mouzakis C. (eds) *Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage*. TMM_CH 2018. *Communications in Computer and Information Science*, vol 961. Springer, Cham. First Online: 21 February 2019. DOI: 10.1007/978-3-030-12957-6_25.

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 (12), 730. DOI: 10.3390/atmos10120730

Pfeifer, S., Rechid, D., Reuter, M., Viktor, E., **Jacob, D.** (2019): 1.5°, 2°, and 3° global warming:

visualizing European regions affected by multiple changes. *Regional Environmental Change*, 19 (6), pp. 1777-1786. DOI: 10.1007/s10113-019-01496-6

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. DOI: 10.3390/atmos10110726

Xu, J., Koldunov, N.V., Remedio, A.R.C., Sein, D.V., Rechid, D., Zhi, X., Jiang, X., Xu, M., Zhu, X., Fraedrich, K., **Jacob, D.** (2019): Downstream effect of Hengduan Mountains on East China in the REMO regional climate model. *Theoretical and Applied Climatology*, 135 (3-4), pp. 1641-1658. DOI: 10.1007/s00704-018-2721-0

- 2018 Bastin, S., Belda, M. Belusic, D., Caldas-Alvarez, A., Cardoso, R. M., Davolio, S., Dobler, Coppola, E., Sobolowski, S., Pichelli, E., Raffaele, F., Ahrens, B., Anders, I., Ban, N., A., Fernandez, J., Fita, L., Fumiere, Q., Giorgi, F., Goergen, K., Güttler, I., Halenka, T., Heinzeller, D., Hodnebrog, Ø., **Jacob, D.**, Kartsios, S., Katragkou, E., Kendon, E., Khodayar, S., Kunstmann, H., Knist, S., Lavín-Gullón, A., Lind, P., Lorenz, T., Maraun, D., Marelle, L., van Meijgaard, E., Milovac, J., Myhre, G., Panitz, H.-J., Piazza, M., Raffa, M., Raub, T., Rockel, B., Schär, C., Sieck, K., Soares, P. M. M., Somot, S., Srnec, L., Stocchi, P., Tölle, M. H., Truhetz, H., Vautard, R., de Vries, H., Warrach-Sagi, K. (2018): A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. In: *Climate Dynamics*. Vol. 51 (327), pp. 1-32. DOI: 10.1007/s00382-018-4521-8. ISSN: 0930-7575 (Print) 1432-0894 (Online)
- Coppola, E., Sobolowski, S., Pichelli, E., Raffaele, F., Ahrens, B., Anders, I., Ban, N., Bastin, S., Belda, M., Belusic, D., Caldas-Alvarez, A., Cardoso, R.M., Davolio, S., Dobler, A., Fernandez, J., Fita, L., Fumiere, Q., Giorgi, F., Goergen, K., Güttler, I., Halenka, T., Heinzeller, D., Hodnebrog, O., **Jacob, D.**, Kartsios, S., Katragkou, E., Kendon, E., Khodayar, S., Kunstmann, H., Knist, S., Lavfn-Gull6n, A., Lind, P., Lorenz, T., Maraun, D., Marelle, L., van Meijgaard, E., Milovac, J., Myhre, G., Panitz, H.-J., Piazza, M., Raffa, M., Raub, T., Rockel, B., Schär, C., Sieck, K., Soares, P.M.M., Somot, S., Srnec, L., Stocchi, P., Tölle, M.H., Truhetz, H., Vautard, R., de Vries, H., Warrach-Sagi, K. (2018): A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. *Climate Dynamics*. DOI: 10.1007/s00382-018-4521-8
- Hoegh-Guldberg, O., **D. Jacob**, M. Taylor, M. Bindi, S. Brown, I. Camilloni, A.Diedhiou, R. Djalante, K.E bi, F. Engelbrecht, J. Guiot, Y. Hijjoka, S. Mehrotra, A. Payne, S. I. Seneviratne, A. Thomas, R. Warren, G. Zhou (2018): Impacts of 1.5°C Global Warming on Natural and Human Systems. In: *Global Warming of 1.5°C. An IPCC Special Report on the Impacts of Global Warming of 1.5°C above Pre-Industrial Levels and Related Global Greenhouse Gas Emission Pathways, in the Context of Strengthening the Global Response to the Threat of Climate Change, Sustainable Development, and Efforts to Eradicate Poverty* [V. Masson- Delmotte, P. Zhai, H. O. Pörtner, D. Roberts, J. Skea, P.R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J. B. R. Matthews, Y. Chen, X. Zhou, M. I. Gomis, E. Lonnoy, T. Maycock, M. Tignor, T. Waterfield (eds.)]. In Press
- IPCC (2018): Summary for Policymakers. In: *Global warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre- industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty* [V. Masson-Delmotte, P. Zhai, H. O. Pörtner, D. Roberts, J. Skea, P. R. Shukla, A. Pirani, W. Moufouma-Okia, C. Péan, R. Pidcock, S. Connors, J. B. R. Matthews, Y. Chen, X. Zhou, M. I. Gomis, E. Lonnoy, T. Maycock, M. Tignor, T. Waterfield (eds.)]. World Meteorological Organization, Geneva, Switzerland, 32 pp.

Drafting Author

Jacob, D., Kotova, L., Teichmann, C., Sobolowski, S.P., Vautard, R., Donnelly, C., Koutroulis, A.G., Grillakis, M.G., Tsanis, I.K., Damm, A., Sakalli, A., van Vliet, M.T.H. (2018): Climate Impacts in Europe Under +1.5°C Global Warming. *Earth's Future*, 6 (2), pp. 264-285. DOI: 10.1002/2017EF000710

Kämäräinen, M., Hyvärinen, O., Vajda, A., Nikulin, G., Meijgaard, E.V., Teichmann, C., **Jacob, D.**,

- Gregow, H., Jylhä, K. (2018): Estimates of Present-Day and Future Climatologies of Freezing Rain in Europe Based on CORDEX Regional Climate Models. *Journal of Geophysical Research: Atmospheres*, 123 (23), pp. 13,291-13,304. DOI: 10.1029/2018JD029131
- Kjellström, E., Nikulin, G., Strandberg, G., Bøssing Christensen, O., **Jacob, D.**, Keuler, K., Lenderink, G., Van Meijgaard, E., Schär, C., Somot, S., Lund S., Orland, S., Teichmann, C., Vautard, R. (2018): European climate change at global mean temperature increases of 1.5 and 2 °C above pre-industrial conditions as simulated by the EURO-CORDEX regional climate models. *Earth System Dynamics*, 9 (2), pp. 459-478. DOI: 10.5194/esd-9-459-2018
- Koutroulis, A.G., Grillakis, M.G., Tsanis, I.K., **Jacob, D.** (2018): Mapping the vulnerability of European summer tourism under 2 °C global warming. *Climatic Change*, 151 (2), pp. 157-171. Cited 3 times. DOI: 10.1007/s10584-018-2298-8
- Pietikäinen, J.-P., Markkanen, T., Sieck, K., **Jacob, D.**, Korhonen, J., Räisänen, P., Gao, Y., Ahola, J., Korhonen, H., Laaksonen, A., Kaurola, J. (2018): The regional climate model REMO (v2015) coupled with the 1-D freshwater lake model FLake (v1): Fenno-Scandinavian climate and lakes. (2018) *Geoscientific Model Development*, 11 (4), pp. 1321-1342. DOI: 10.5194/gmd-11-1321-2018
- Schuck-Zoeller, S., Cortekar, J., **Jacob, D.** (2018): Evaluation transdisziplinärer Forschung und deren Rahmenbedingungen. Vorüberlegungen zur Nutzung im Bereich von Klimageschichte. In: *Fteval Journal for Research and Technology Policy Evaluation*. Vol. 45, pp. 28-37
- 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). DOI: 10.3390/atmos9040115
- van den Hurk, B., Hewitt, C., **Jacob, D.**, Bessembinder, J., Doblas-Reyes, F., Döscher, R. (2018): The match between climate services demands and Earth System Models supplies. *Climate Services*, 12, pp. 59-63. DOI: 10.1016/j.cliser.2018.11.002
- Weber, T., Haensler, A., **Jacob, D.** (2018): Sensitivity of the atmospheric water cycle to corrections of the sea surface temperature bias over southern Africa in a regional climate model. *Climate Dynamics*, 51 (7-8), pp. 2841-2855. DOI: 10.1007/s00382-017-4052-8
- Weber, T., Haensler, A., Rechid, D., Pfeifer, S., Eggert, B., **Jacob, D.** (2018): Analyzing Regional Climate Change in Africa in a 1.5, 2, and 3°C Global Warming World. *Earth's Future*, 6 (4), pp. 643-655. DOI: 10.1002/2017EF000714
- Xu, J., Koldunov, N., Remedio, A.R.C., Sein, D.V., Zhi, X., Jiang, X., Xu, M., Zhu, X., Fraedrich, K., **Jacob, D.** (2018): On the role of horizontal resolution over the Tibetan Plateau in the REMO regional climate model. *Climate Dynamics*, 51 (11-12), pp. 4525-4542. C. DOI: 10.1007/s00382-018-4085-7
- 2017 Bender, S., **Jacob, D.** (2017): Extremereignisse in der Zukunft - Welche Aussagen sind durch Klimaprojektionen möglich? *GWF, Wasser – Abwasser*. 7-8, 2636, 85-88
- Blome, T., Haensler, A., Manes-Costa, M., **Jacob, D.** (2017): In: Blome, T., Haensler, A. (Eds.): *ICCS 5 - Fifth International Conference on Climate Services, Innovation in Climate Services and Capacity Building - Conference report*. Cape Town (ZA), 28.02.-02.03.2017
- Cabos, W., Sein, D.V., Pinto, J.G., Fink, A.H., Koldunov, N.V., Alvarez, F., Izquierdo, A., Keenlyside, N., **Jacob, D.** (2017): The South Atlantic Anticyclone as a key player for the representation of the tropical Atlantic climate in coupled climate models. *Climate Dynamics*, 48 (11-12), pp. 4051-4069. DOI: 10.1007/s00382-016-3319-9
- Jacob, D.**, Solman, S. (2017): *IMPACT2C - An introduction*. *Climate Services*, 7, pp. 1-2. DOI: 10.1016/j.cliser.2017.07.006
- Jacob, D.**, Bender, S. (2017): Extreme events in the future - Which statements are possible using climate projections? [Article: Extremereignisse in der Zukunft - Welche Aussagen sind durch Klimaprojektionen möglich?] (2017) *GWF, Wasser - Abwasser*, 158 (7-8), pp. 85-88.
- Knist, S., Goergen, K., Buonomo, E., Christensen, O.B., Colette, A., Cardoso, R.M., Fealy, R.,

- Fernandez, J., Garcia-Díez, M., **Jacob, D.**, Kartsios, S., Katragkou, E., Keuler, K., Mayer, S., Van Meijgaard, E., Nikulin, G., Soares, P.M.M., Sobolowski, S., Szepszo, G., Teichmann, C., Vautard, R., Warrach-Sagi, K., Wulfmeyer, V., Simmer, C. (2017): Land-atmosphere coupling in EURO-CORDEX evaluation experiments. *Journal of Geophysical Research*, 122 (1), pp. 79-103. DOI: 10.1002/2016JD025476
- Paeth, H., Paxian, A., Sein, D.V., **Jacob, D.**, Panitz, H.-J., Warscher, M., Fink, A.H., Kunstmann, H., Breil, M., Engel, T., Krause, A., Toedter, J., Ahrens, B. (2017): Decadal and multi-year predictability of the West African monsoon and the role of dynamical downscaling. *Meteorologische Zeitschrift*, 26 (4), pp. 363-377. DOI: 10.1127/metz/2017/0811
- Preuschmann, S., Hänsler, A., Kotova, L., Dürk, N., Eibner, W., Waidhofer, C., Haselberger, C., **Jacob, D.** (2017): The IMPACT2C web-atlas - Conception, organization and aim of a web-based climate service product. *Climate Services*, 7, pp. 115-125. DOI: 10.1016/j.cliser.2017.03.005
- Preuschmann, S., Hänsler, A., **Jacob, D.** (2017). The IMPACT2C Web-Atlas - A Strategy for Disseminating Results of "Integrated Research in the Danube Basin". In: *Lower Danube Basin - Approaches to Macroregional Sustainability*. Balteanu, D. Ed. ISBN: 978-973-27-2771-3. Bukarest: Editura Academiei Romane, pp. 31-40
- Püchik, T., Groenemeijer, P., Rädler, A.T., Tijssen, L., Nikulin, G., Prein, A.F., Meijgaard, E., Fealy, R., **Jacob, D.**, Teichmann, C. (2017): Future changes in European severe convection environments in a regional climate model ensemble. *Journal of Climate*, 30 (17), pp. 6771-6794. DOI: 10.1175/JCLI-D-16-0777.1
- Schuck-Zöller, S., Cortekar, J., **Jacob, D.** (2017): EVALUATING CO-CREATION OF KNOWLEDGE: From Quality Criteria and Indicators to Methods. *Adv. Sci. Res.*, 14, 305–312. DOI: 10.5194/asr-14-305-2017
- Stankowitz, M., Groth, M., **Jacob, D.** (2017): On the Heterogeneity of the Economic Value of Electricity Distribution Networks: An Application to Germany. In: *Working Paper Series in Economics*, University of Lueneburg, Vol. 371 Lueneburg: Institut fuer Volkswirtschaftslehre.
- 2016 Bender, S., Cortekar, J., **Jacob, D.** (2016): Klimaresiliente Stadt - Was sagen Klimamodell-Projektionen über die Zukunft von Städten aus und wie können Städte diese Zukunft beeinflussen und meistern?. In: Pinnekamp, J. (Ed.): *Tagungsband Gewässerschutz – Wasser – Abwasser*, 49. Essener Tagung für Wasser- und Abfallwirtschaft, Vol. 239 Essen (D), 02.-04.03.2016, 2016. 32-1- 32-14. ISBN: 978-3-938996-45-4
- Bender, S., **Jacob, D.** (2016): What do Climate projections tell us about future challenges of German water supplies? [Article: Die Aussagekraft von Klimaprojektionen für zukünftige Herausforderungen der Trinkwasserversorgung in Deutschland]. *GWF, Wasser - Abwasser*, 157 (4), pp. 362-368.
- Brasseur, Guy P., **Jacob, D.**, Schuck-Zöller, S. (2016): *Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven*. Springer. Berlin, Heidelberg. ISBN: 978-3-662-50396-6. DOI: 10.1007/978-3-662-50397-3
- Casanueva, A., Kotlarski, S., Herrera, S., Fernandez, J., Gutierrez, J.M., Boberg, F., Colette, A., Christensen, O.B., Goergen, K., **Jacob, D.**, Keuler, K., Nikulin, G., Teichmann, C., Vautard, R. (2016): Daily precipitation statistics in a EURO-CORDEX RCM ensemble: added value of raw and bias-corrected high-resolution simulations. *Climate Dynamics*, 47 (3-4), pp. 719-737. DOI: 10.1007/s00382-015-2865-x
- Dobler, A., Feldmann, H., Ulbrich, U., **Jacob, D.**, Kottmeier, C. (2016): Grenzen und Herausforderungen der regionalen Klimamodellierung. In: Brasseur, Guy P., Jacob, D., Schuck-Zöller, S. (Eds.): *Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven*. pp. 37-44. Springer. Berlin, Heidelberg. ISBN: 978-3-662-50396-6. DOI: 10.1007/978-3-662-50397-3
- Gutowski, J.W., Giorgi, F., Timbal, B., Frigon, A., **Jacob, D.**, Kang, H.-S., Raghavan, K., Lee, B., Lennard, C., Nikulin, G., O'Rourke, E., Rixen, M., Solman, S., Stephenson, T., Tangang, F. (2016): WCRP COordinated Regional Downscaling EXperiment (CORDEX): A diagnostic MIP for CMIP6. *Geoscientific Model Development*, 9 (11), pp. 4087-4095. DOI: 10.5194/gmd-9-4087-2016

- Haensler, A., Koldunov, N., Sein, D., Sauf, W., **Jacob, D.** (2016): Very High Resolution Simulations of African Climate with the Regional Climate Model REMO. In: K. Binder, M. Müller, M. Kremer, A. Schnurpfeil (Ed.): NIC Symposium 2016 11-12 February 2016 Jülich, Germany. pp. 291-298. ISBN: 978-3-95806-109-5
- Jacob, D.**, Kottmeier, C., Petersen, J., Rechid, D., Teichmann, C. (2016): Regionale Klimamodellierung. In: Brasseur, Guy P., Jacob, D., Schuck-Zöller, S. (Eds.): Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven. pp. 27-35. Springer. Berlin, Heidelberg. ISBN: 978-3-662-50396-6. DOI: 10.1007/978-3-662-50397-3
- Jacob, D.**, Fischer-Bruns, I., Seipold, P. (2016): Klimadienstleistungen GERICS - Climate services GERICS. In: Annalen der Meteorologie, 10. Annaberger Klimatage 2016, Vol. 49 Annaberg-Buchholz, 11.-12.05.2016. ISBN: 978-3-88148-489-3
- Jacob, D.**, Kottmeier, C., Petersen, J., Rechid, D., Teichmann, C. (2016): Regionale Klimamodellierung. In: Brasseur, Guy P., Jacob, D., Schuck-Zöller, S. (Eds.): Klimawandel in Deutschland - Entwicklung, Folgen, Risiken und Perspektiven. pp. 27 - 35. DOI: 10.1007/978-3-662-50397-3_4
- Kaspar, F., Mächel, H., **Jacob, D.**, Kottmeier, C. (2016): Beobachtung von Klima und Klimawandel in Mitteleuropa und Deutschland. In: Brasseur, Guy P., Jacob, D., Schuck-Zöller, S. (Eds.): Klimawandel in Deutschland- Entwicklung, Folgen, Risiken und Perspektiven. pp. 17-26. Springer. Berlin, Heidelberg. ISBN: 978-3-662-50396-6. DOI: 10.1007/978-3-662-50397-3
- Koldunov, N.V., Kumar, P., Rasmussen, R., Ramanathan, A.L., Nesje, A., Engelhardt, M., Tewari, M., Haensler, A., **Jacob, D.** (2016): Identifying climate change information needs for the himalayan region: Results from the GLACINDIA (2016): Stakeholder Workshop and Training Program. Bulletin of the American Meteorological Society, 97 (2), pp. ES37-ES40. DOI: 10.1175/BAMS-D-15-00160.1
- Koutroulis, A.G., Grillakis, M.G., Daliakopoulos, I.N., Tsanis, I.K., **Jacob, D.** (2016): Cross sectoral impacts on water availability at +2°C and +3°C for east Mediterranean island states: The case of Crete. Journal of Hydrology, 532, pp. 16-28. DOI: 10.1016/j.jhydrol.2015.11.015
- Marke, T., Mauser, W., Pfeiffer, A., Zaengl, G., **Jacob, D.**, Preuschmann, S. (2016): Climate Variants of the MM5 and REMO Regional Climate Models. In: Mauser, W., Prasch, M. (Eds.): Regional Assessment of Global Change Impacts - The Project GLOWA-Danube, pp. 435 - 453. DOI: 10.1007/978-3-319-16751-0_51
- Mauser, W., Marke, T., Reiter, A., **Jacob, D.**, Preuschmann, S. (2016): The GLOWA- Danube Climate Trends. In: Mauser, W., Prasch, M. (Eds.): Regional Assessment of Global Change Impacts - The Project GLOWA-Danube, pp. 377 - 395. DOI: 10.1007/978-3-319-16751-0_48
- Otto, J., Brown, C., Buontempo, C., Doblas-Reyes, F., **Jacob, D.**, Juckes, M., Keup-Thiel, E., Kurnik, B., Schulz, J., Taylor, A., Verhoelst, T., Walton, P. (2016): Uncertainty: Lessons learned for climate services. Bulletin of the American Meteorological Society, 97 (12), pp. ES265-ES269. DOI: 10.1175/BAMS-D-16-0173.1
- Paxian, A., Sein, D., Panitz, H.-J., Warscher, M., Breil, M., Engel, T., Tödter, J., Krause, A., Cabos Narvaez, W.D., Fink, A.H., Ahrens, B., Kunstmann, H., **Jacob, D.**, Paeth, H. (2016): Bias reduction in decadal predictions of West African monsoon rainfall using regional climate models. Journal of Geophysical Research, 121 (4), pp. 1715-1735. DOI: 10.1002/2015JD024143
- Prein, A.F., Gobiet, A., Truhetz, H., Keuler, K., Goergen, K., Teichmann, C., Fox Maule, C., van Meijgaard, E., Deque, M., Nikulin, G., Vautard, R., Colette, A., Kjellström, E., **Jacob, D.** (2016): Precipitation in the EURO-CORDEX 0.11° and 0.44° simulations: high resolution, high benefits? Climate Dynamics, 46 (1-2), pp. 383-412. DOI: 10.1007/s00382-015-2589-y
- Raub, T., Getzlaff, K., **Jacob, D.**, Lehmann, A. (2016): The BALTEX Box Revisited: The Energy Budget of the Baltic Sea in the Coupled Regional Climate Model REMO-BSIOM. In: Multiple drivers for Earth system changes in the Baltic Sea region. 1st Baltic Earth Conference. Conference Proceedings. pp. 158-159.
- Sieck, K., **Jacob, D.** (2016): Influence of the Boundary Forcing on the Internal Variability of a

- Regional Climate Model. In: American Journal of Climate Change, 5(03), pp. 373-382. DOI: 10.4236/ajcc.2016.53028
- Xu, J., Xu, M., Jiang, X., Remedio, A. R., Sein, D.V., Koldunov, N., **Jacob, D.** (2016): The Assessment of Surface Air Temperature and Precipitation Simulated by Regional Climate Model REMO over China. In: Advances in Climate Change Research, 12 (4), pp. 286-293. DOI: 10.12006/j.issn.1673-1719.2015.194
- 2015 Bowyer, P., Brasseur, G.P., **Jacob, D.** (2015): The role of climate services in adapting to climate variability and change. Handbook of Climate Change Adaptation, pp. 533-550. DOI: 10.1007/978-3-642-38670-1_25
- Bowyer, P., Schaller, M., Bender, S., **Jacob, D.** (2015): Adaptation as climate risk management: Methods and approaches. Handbook of Climate Change Adaptation, pp. 71-92. DOI: 10.1007/978-3-642-38670-1_4
- Eggert, B., Berg, P., Haerter, J.O., **Jacob, D.**, Moseley, C. (2015): Temporal and spatial scaling impacts on extreme precipitation (2015) Atmospheric Chemistry and Physics, 15 (10), pp. 5957-5971. DOI: 10.5194/acp-15-5957-2015
- Gálos, B., Führer, E., Czimber, K., Gulyas, K., Bidl, A., Hänsler, A., **Jacob, D.**, Matyas, C. (2015): Climatic threats determining future adaptive forest management - A case study of Zala county Idojaras, 119 (4), pp. 425-441.
- Gao, Y., Weiher, S., Markkanen, T., Pietikäinen, J.-P., Gregow, H., Henttonen, H.M., **Jacob, D.**, Laaksonen, A. (2015): Implementation of the CORINE land use classification in the regional climate model REMO. Boreal Environment Research, 20 (2), pp. 261-282.
- Imholt, C., Reil, D., Eccard, J.A., **Jacob, D.**, Hempelmann, N., Jacob, J. (2015): Quantifying the past and future impact of climate on outbreak patterns of bank voles (*Myodes glareolus*). Pest Management Science, 71 (2), pp. 166-172. DOI: 10.1002/ps.3838
- Katragkou, E., Garcia-Diez, M., Vautard, R., Sobolowski, S., Zanis, P., Alexandri, G., Cardoso, R.M., Colette, A., Fernandez, J., Gobiet, A., Goergen, K., Karacostas, T., Knist, S., Mayer, S., Soares, P.M.M., Pytharoulis, I., Tegoulis, I., Tsikerdekis, A., **Jacob, D.** (2015): Regional climate hindcast simulations within EURO-CORDEX: Evaluation of a WRF multi-physics ensemble. Geoscientific Model Development, 8 (3), pp. 603-618. DOI: 10.5194/gmd-8-603-2015
- Kovats, R.S., Valentini, R., Bouwer, L.M., Georgopoulou, E., **Jacob, D.**, Martin, E., Rounsevell, M., Soussana, J.-F. (2015): Europe. Climate Change 2014: Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Working Group II Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, pp. 1267-1326. DOI: 10.1017/CB09781107415386.003
- Kumar, P., Kotlarski, S., Moseley, C., Sieck, K., Frey, H., Stoffel, M., **Jacob, D.** (2015): Response of Karakoram-Himalayan glaciers to climate variability and climatic change: A regional climate model assessment. Geophysical Research Letters, 42 (6), pp. 1818-1825. DOI: 10.1002/2015GL063392
- Leissner, J., Kilian, R., Kotova, L., **Jacob, D.**, Mikolajewicz, U., Broström, T., Ashley-Smith, J., Schellen, H.L., Martens, M., Van Schijndel, J., Antretter, F., Winkler, M., Bertolin, C., Camuffo, D., Simeunovic, G., Vyhldal, T. (2015): Climate for culture: Assessing the impact of climate change on the future indoor climate in historic buildings using simulations. Heritage Science, 3 (1), art. no. 38. DOI: 10.1186/s40494-015-0067-9
- 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 (5), pp. 677-698. DOI: 10.22444/IBVS.6227_old
- Sanchez, E., Solman, S., Remedio, A.R.C., Berbery, H., Samuelsson, P., Da Rocha, R.P., Mourão, C., Li, L., Marengo, J., de Castro, M., **Jacob, D.** (2015): Regional climate modelling in CLARIS-LPB: a concerted approach towards twentyfirst century projections of regional temperature and precipitation over South America. Climate Dynamics, 45 (7-8), pp. 2193-2212. DOI:

10.1007/s00382-014-2466-0

Sein, D.V., Mikolajewicz, U., Gröger, M., Fast, I., Cabos, W., Pinto, J.G., Hagemann, S., Semmler, T., Izquierdo, A., **Jacob, D.** (2015): Regionally coupled atmosphere-ocean-sea ice-marine biogeochemistry model ROM: 1. Description and validation. *Journal of Advances in Modeling Earth Systems*, 7 (1), pp. 268-304. DOI: 10.1002/2014MS000357

2014 Bennartz, R., Lorenz, P., **Jacob, D.** (2014): A comparison of the BALTIMOS coupled climate model with atmospheric and sea surface parameters derived from AMSR-E. *Theoretical and Applied Climatology*, 118 (4), pp. 617-625. DOI: 10.1007/s00704-009-0178-x

Jacob, D. (2014): Development and validation of a coupled model system in the Baltic region-BALTIMOS. *Theoretical and Applied Climatology*, 118 (4), pp. 609-610. DOI: 10.1007/s00704-014-1291-z

Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O.B., Bouwer, L.M., Braun, A., Colette, A., Deque, 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., Kriegsmann, A., Martin, E., van 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 (2), pp. 563-578. Cited 662 times. DOI: 10.1007/s10113-013-0499-2

Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O.B., Bouwer, L.M., Braun, A., Colette, A., Deque, 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., Kriegsmann, A., Martin, E., van 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): Erratum to: EURO-CORDEX: New high-resolution climate change projections for European impact research (*Reg Environ Change*, 10.1007/s10113-013-0499-2). *Regional Environmental Change*, 14 (2), pp. 579-581. DOI: 10.1007/s10113-014-0587-y

Kotlarski, S., Keuler, K., Christensen, O.B., Colette, A., Deque, M., Gobiet, A., Goergen, K., **Jacob, D.**, Lüthi, D., Van Meijgaard, E., Nikulin, G., Schär, C., Teichmann, C., Vautard, R., Warrach-Sagi, K., Wulfmeyer, V. (2014): Regional climate modeling on European scales: A joint standard evaluation of the EURO-CORDEX RCM ensemble. *Geoscientific Model Development*, 7 (4), pp. 1297-1333. DOI: 10.5194/gmd-7-1297-2014

Kumar, P., Podzun, R., Hagemann, S., **Jacob, D.** (2014): Impact of modified soil thermal characteristic on the simulated monsoon climate over south Asia. *Journal of Earth System Science*, 123 (1), pp. 151-160. DOI: 10.1007/s12040-013-0381-0

Lorenz, P., **Jacob, D.** (2014): BALTIMOS-a coupled modelling system for the Baltic Sea and its drainage basin. *Theoretical and Applied Climatology*, 118 (4), pp. 715-727. DOI: 10.1007/s00704-014-1276-y

Marke, T., Mauser, W., Pfeiffer, A., Zängl, G., **Jacob, D.**, Strasser, U. (2014): Application of a hydrometeorological model chain to investigate the effect of global boundaries and downscaling on simulated river discharge. *Environmental Earth Sciences*, 71 (11), pp. 4849-4868. DOI: 10.1007/s12665-013-2876-z

Pessacg, N.L., Solman, S.A., Samuelsson, P., Sanchez, E., Marengo, J., Li, L., Remedio, A.R.C., da Rocha, R.P., Mourão, C., **Jacob, D.** (2014): The surface radiation budget over South America in a set of regional climate models from the CLARIS-LPB project. *Climate Dynamics*, 43 (5-6), pp. 1221-1239. DOI: 10.1007/s00382-013-1916-4

Schuck-Zoeller, S., Bowyer, P., **Jacob, D.**, Brasseur, G. (2014): Inter- und transdisziplinäres Arbeiten im Klimageschichte. In: Beese, K., Fekkak, M., Katz, C., Koerner, C., Molitor, H. (Eds.): *Anpassung an regionale Klimafolgen kommunizieren - Konzepte, Herausforderungen und Perspektiven*. pp. 99-116. München: Oekom, 2014. ISBN: 978-3-86581-474-6

Vautard, R., Gobiet, A., Sobolowski, S., Kjellström, E., Stegehuis, A., Watkiss, P., Mendlik, T.,

- Landgren, O., Nikulin, G., Teichmann, C., **Jacob, D.** (2014): The European climate under a 2 °C global warming. *Environmental Research Letters*, 9 (3). DOI: 10.1088/1748-9326/9/3/034006
- Weber, T., Helmschrot, J., Berndt, R., **Jacob, D.** (2014): Assessment of climate dynamics in the Okavango region using high-resolution ERA-40 reanalysis data. In: *Zentralblatt für Geologie und Paläontologie, Teil I, Heft 1*, pp. 171-187.
- Wilhelm, C., Rechid, D., **Jacob, D.** (2014): Interactive coupling of regional atmosphere with biosphere in the new generation regional climate system model REMO-iMOVE. *Geoscientific Model Development*, 7 (3), pp. 1093-1114. DOI: 10.5194/gmd-7-1093-2014
- 2013 Dimri, A.P., Yasunari, T., Wiltshire, A., Kumar, P., Mathison, C., Ridley, J., **Jacob, D.** (2013): Application of regional climate models to the Indian winter monsoon over the western Himalayas. *Science of the Total Environment*, 468-469, pp. S36-S47. DOI: 10.1016/j.scitotenv.2013.01.040
- 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*, 8 (1), art. no. 3. DOI: 10.1186/1750-0680-8-3
- Gualdi, S., Somot, S., Li, L., Artale, V., Adani, M., Bellucci, A., Braun, A., Calmanti, S., Carillo, A., Dell'Aquila, A., Deque, M., Dubois, C., Elizalde, A., Harzallah, A., **Jacob, D.**, L'Heveder, B., May, W., Oddo, P., Ruti, P., Sanna, A., Sannino, G., Scoccimarro, E., Sevault, F., Navarra, A. (2013): THE circe simulations: Regional climate change projections with realistic representation of the mediterranean sea. *Bulletin of the American Meteorological Society*, 94 (1), pp. 65-81. DOI: 10.1175/BAMS-D-11-00136.1
- Haensler, A., Saeed, F., Jacob, D. (2013): Assessing the robustness of projected precipitation changes over central Africa on the basis of a multitude of global and regional climate projections. *Climatic Change*, 121 (2), pp. 349-363. DOI: 10.1007/s10584-013-0863-8
- Hienola, A.I., Pietikäinen, J.-P., **Jacob, D.**, Pozdun, R., Petäjä, T., Hyvärinen, A.-P., Sogacheva, L., Kerminen, V.-M., Kulmala, M., Laaksonen, A. (2013): Black carbon concentration and deposition estimations in Finland by the regional aerosol-climate model REMO-HAM. *Atmospheric Chemistry and Physics*, 13 (8), pp. 4033-4055. DOI: 10.5194/acp-13-4033-2013
- Hoyos, I., Baquero-Bernal, A., **Jacob, D.**, Rodríguez, B.A. (2013): Variability of extreme events in the Colombian Pacific and Caribbean catchment basins. *Climate Dynamics*, 40 (7-8), pp. 1985-2003. DOI: 10.1007/s00382-012-1487-9
- Hueging, H., Haas, R., Born, K., **Jacob, D.**, Pinto, J.G. (2013): Regional changes in wind energy potential over Europe using regional climate model ensemble projections. *Journal of Applied Meteorology and Climatology*, 52 (4), pp. 903-917. DOI: 10.1175/JAMC-D-12-086.1
- Koutroulis, A.G., Tsanis, I.K., Daliakopoulos, I.N., **Jacob, D.** (2013): Impact of climate change on water resources status: A case study for Crete Island, Greece. *Journal of Hydrology*, 479, pp. 146-158. DOI: 10.1016/j.jhydrol.2012.11.055
- Kumar, P., Wiltshire, A., Mathison, C., Asharaf, S., Ahrens, B., Lucas-Picher, P., Christensen, J.H., Gobiet, A., Saeed, F., Hagemann, S., **Jacob, D.** (2013): Downscaled climate change projections with uncertainty assessment over India using a high resolution multi-model approach. *Science of the Total Environment*, 468-469, pp. S18-S30. DOI: 10.1016/j.scitotenv.2013.01.051
- Mannig, B., Müller, M., Starke, E., Merckenschlager, C., Mao, W., Zhi, X., Podzun, R., **Jacob, D.**, Paeth, H. (2013): Dynamical downscaling of climate change in Central Asia. *Global and Planetary Change*, 110, pp. 26-39. DOI: 10.1016/j.gloplacha.2013.05.008
- Marengo, J., Chou, S., Mourao, C., Solman, S., Sanchez, E., Samuelsson, P., da Rocha, R.P., Li, L., Pessacq, N., Remedio, A.R.C., Carril, A.F., F Cavalcanti, I., **Jacob, D.** (2013): Simulation of rainfall anomalies leading to the 2005 drought in Amazonia using the CLARIS LPB regional climate models. *Climate Dynamics*, 41 (11-12), pp. 2937-2955. DOI: 10.1007/s00382-013-1919-1
- Mathison, C., Wiltshire, A., Dimri, A.P., Falloon, P., **Jacob, D.**, Kumar, P., Moors, E., Ridley, J., Siderius, C., Stoffel, M., Yasunari, T. (2013): Regional projections of North Indian climate for adaptation studies. *Science of the Total Environment*, 468-469, pp. S4-S17. DOI:

10.1016/j.scitotenv.2012.04.066

Saeed, F., Haensler, A., Weber, T., Hagemann, S., **Jacob, D.** (2013): Representation of extreme precipitation events leading to opposite climate change signals over the Congo basin. *Atmosphere*, 4 (3), pp. 254-271. DOI: 10.3390/atmos4030254

Saeed, F., Hagemann, S., Saeed, S., **Jacob, D.** (2013): Influence of mid-latitude circulation on upper Indus basin precipitation: The explicit role of irrigation. *Climate Dynamics*, 40 (1-2), pp. 21-38. DOI: 10.1007/s00382-012-1480-3

Solman, S.A., Sanchez, E., Samuelsson, P., da Rocha, R.P., Li, L., Marengo, J., Pessacq, N.L., Remedio, A.R.C., Chou, S.C., Berbery, H., Le Treut, H., de Castro, M., **Jacob, D.** (2013): Evaluation of an ensemble of regional climate model simulations over South America driven by the ERA-Interim reanalysis: Model performance and uncertainties. *Climate Dynamics*, 41 (5-6), pp. 1139-1157. DOI: 10.1007/s00382-013-1667-2

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., 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), pp. 214-236. DOI: 10.3390/atmos4020214

Tsanis, I.K., Grillakis, M.G., Koutroulis, A.G., **Jacob, D.** (2013): Reducing uncertainty on global precipitation projections. In: *Journal of Earth Science & Climatic Change*, Vol. 5 (178). DOI: 10.4172/2157-7617.1000178

Vautard, R., Gobiet, A., **Jacob, D.**, Belda, M., Colette, A., Deque, M., Fernandez, J., Garcia-Dfez, M., Goergen, K., Güttler, I., Halenka, T., Karacostas, T., Katragkou, E., Keuler, K., Kotlarski, S., Mayer, S., van Meijgaard, E., Nikulin, G., Patarcic, M., Scinocca, J., Sobolowski, S., Suklitsch, M., Teichmann, C., Warrach-Sagi, K., Wulfmeyer, V., Yiou, P. (2013): The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project. *Climate Dynamics*, 41 (9-10), pp. 2555-2575. DOI: 10.1007/s00382-013-1714-z

2012 Becker, P., **Jacob, D.**, Deutschländer, T., Imbery, F., Namyslo, J., Müller-Westermeier, G., Roos, M. (2012): Klimawandel in Deutschland. In: Mosbrugger, V., G. Brasseur, M. Schaller, B. Stribny (Ed.): *Klimawandel und Biodiversität - Folgen für Deutschland*. WBG, Darmstadt

Carril, A.F., Menendez, C.G., Remedio, A.R.C., Robledo, F., Sörensson, A., Tencer, B., Boulanger, J.-P., de Castro, M., **Jacob, D.**, Le Treut, H., Li, L.Z.X., Penalba, O., Pfeifer, S., Rusticucci, M., Salio, P., Samuelsson, P., Sanchez, E., Zaninelli, P. (2012): Performance of a multi-RCM ensemble for South Eastern South America. *Climate Dynamics*, 39 (12), pp. 2747-2768. DOI: 10.1007/s00382-012-1573-z

Déqué, M., Somot, S., Sanchez-Gomez, E., Goodess, C.M., **Jacob, D.**, Lenderink, G., Christensen, O.B. (2012): The spread amongst ENSEMBLES regional scenarios: Regional climate models, driving general circulation models and interannual variability. *Climate Dynamics*, 38 (5-6), pp. 951-964. DOI: 10.1007/s00382-011-1053-x

Dubois, C., Somot, S., Calmanti, S., Carillo, A., Deque, M., Dell'Aquila, A., Elizalde, A., Gualdi, S., **Jacob, D.**, L'Heveder, B., Li, L., Oddo, P., Sannino, G., Scoccimarro, E., Sevault, F. (2012): Future projections of the surface heat and water budgets of the Mediterranean Sea in an ensemble of coupled atmosphere-ocean regional climate models. *Climate Dynamics*, 39 (7-8), pp. 1859-1884. DOI: 10.1007/s00382-011-1261-4

Dubois, C., Somot, S., Calmanti, S., Carillo, A., Deque, M., Dell'Aquila, A., Elizalde, A., Gualdi, S., **Jacob, D.**, L'Heveder, B., Li, L., Oddo, P., Sannino, G., Scoccimarro, E., Sevault, F. (2012): Erratum to: Future projections of the surface heat and water budgets of the Mediterranean Sea in an ensemble of coupled atmosphere-ocean regional climate models (*Clim Dyn*, 10.1007/s00382-011-1261-4). *Climate Dynamics*, 39 (12), p. 3125. DOI: 10.1007/s00382-012-1307-2

Gálos, B., 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 (1), pp. 87-102. DOI: 10.2478/v10303-012-0007-2

- Jacob, D.**, Elizalde, A., Haensler, A., Hagemann, S., Kumar, P., Podzun, R., Rechid, D., Remedio, A.R., Saeed, F., Sieck, K., Teichmann, C., Wilhelm, C. (2012): Assessing the transferability of the regional climate model REMO to different coordinated regional climate downscaling experiment (CORDEX) regions. *Atmosphere*, 3 (1), pp. 181-199. DOI: 10.3390/atmos3010181
- Kotlarski, S., Hagemann, S., Krahe, P., Podzun, R., **Jacob, D.** (2012): The Elbe river flooding 2002 as seen by an extended regional climate model. *Journal of Hydrology*, 472-473, pp. 169-183. DOI: 10.1016/j.jhydrol.2012.09.020
- Pietikainen, J.-P., O'Donnell, D., Teichmann, C., Karstens, U., Pfeifer, S., Kazil, J., Podzun, R., Fiedler, S., Kokkola, H., Birmili, W., O'Dowd, C., Baltensperger, U., Weingartner, E., Gehrig, R., Spindler, G., Kulmala, M., Feichter, J., **Jacob, D.**, Laaksonen, A. (2012): The regional aerosol-climate model REMO-HAM. *Geoscientific Model Development*, 5 (6), pp. 1323-1339. DOI: 10.5194/gmd-5-1323-2012
- Saeed, F., Hagemann, S., **Jacob, D.** (2012): A framework for the evaluation of the South Asian summer monsoon in a regional climate model applied to REMO. *International Journal of Climatology*, 32 (3), pp. 430-440. DOI: 10.1002/joc.2285
- 2011 Aich, V., Strauch, U., Sieck, K., Leyens, D., **Jacob, D.**, Paeth, H. (2011): Development of Wet-Bulb-Temperatures in Germany with special regard to conventional thermal Power Plants using Wet Cooling Towers. *Meteorologische Zeitschrift*, 20 (6), pp. 601-614. DOI: 10.1127/0941-2948/2011/0259
- Brasseur, G., Fischer-Bruns, I., **Jacob, D.**, Elizalde, A. (2011): Klimawandel und Luftqualität im Mittelmeerraum - Das Climate Service Center informiert. EMA, Mediterranes, Ausgabe 2/2011 "Innovativ in eine gemeinsame Zukunft-Umwelt und Erneuerbare Energien in der EMA-Region."
- Gálos, B., **Jacob, D.**, Matyas, C. (2011): Effects of simulated forest cover change on projected climate change - A case study of Hungary. *Acta Silvatica et Lignaria Hungarica*, 7, pp. 49-62.
- Gálos, B., Matyas, C., **Jacob, D.** (2011): Regional characteristics of climate change altering effects of afforestation. *Environmental Research Letters*, 6 (4). DOI: 10.1088/1748-9326/6/4/044010
- Haensler, A., Hagemann, S., **Jacob, D.** (2011): The role of the simulation setup in a long-term high-resolution climate change projection for the southern African region. *Theoretical and Applied Climatology*, 106 (1-2), pp. 153-169. Cited 22 times. DOI: 10.1007/s00704-011-0420-1
- Haensler, A., Hagemann, S., **Jacob, D.** (2011): Dynamical downscaling of ERA40 reanalysis data over southern Africa: Added value in the simulation of the seasonal rainfall characteristics. *International Journal of Climatology*, 31 (15), pp. 2338-2349. DOI: 10.1002/joc.2242
- Haensler, A., Cermak, J., Hagemann, S., **Jacob, D.** (2011): Will the southern African west coast fog be affected by future climate change?: Results of an initial fog projection using a regional climate model. *Erdkunde*, 65 (3), pp. 261-275. DOI: 10.3112/erdkunde.2011.03.04
- Jacob, D.**, Hagemann, S. (2011): Verstärkung des Wasserkreislaufs – wichtige Kennzeichen des Klimawandels. In: Lozán, J. L., H. Graßl, P. Hupfer, L. Karbe & C.-D. Schönwiese (Eds): *Warnsignal Klima: Genug Wasser für alle?*
- Lucas-Picher, P., Christensen, J.H., Saeed, F., Kumar, P., Asharaf, S., Ahrens, B., Wiltshire, A.J., **Jacob, D.**, Hagemann, S. (2011): Can regional climate models represent the Indian monsoon? (2011) *Journal of Hydrometeorology*, 12 (5), pp. 849-868. DOI: 10.1175/2011JHM1327.1
- Moors, E.J., Groot, A., Biemans, H., Van Scheltinga, C.T., Siderius, C., Stoffel, M., Huggel, C., Wiltshire, A., Mathison, C., Ridley, J., **Jacob, D.**, Kumar, P., Bhadwal, S., Gosain, A., Collins, D.N. (2011): Adaptation to changing water resources in the Ganges basin, northern India. *Environmental Science and Policy*, 14 (7), pp. 758-769. DOI: 10.1016/j.envsci.2011.03.005
- Mudelsee, M., Chirila, D., Deutschländer, T., Döring, C., Haerter, J.O., Hagemann, S., Hoffmann, H., **Jacob, D.**, Krahé, P., Lohmann, G., Moseley, C., Nilson, E., Panferov, O., Rath, T., Tinz, B. (2010): Climate Model Bias Correction und die Deutsche Anpassungsstrategie. In: *Mitteilungen Deutsche Meteorologische Gesellschaft*, Vol. 3, pp. 2-7. ISSN: 0177-8501
- Paeth, H., Hall, N.M., Gaertner, M.A., Alonso, M.D., Moumouni, S., Polcher, J., Ruti, P.M., Fink,

- A.H., Gosset, M., Lebel, T., Gaye, A.T., Rowell, D.P., Moufouma-Okia, W., **Jacob, D.**, Rockel, B., Giorgi, F., Rummukainen, M. (2011): Progress in regional downscaling of west African precipitation. *Atmospheric Science Letters*, 12 (1), pp. 75-82. DOI: 10.1002/asl.306
- Saeed, S., Müller, W.A., Hagemann, S., **Jacob, D.** (2011): Circumglobal wave train and the summer monsoon over northwestern India and Pakistan: The explicit role of the surface heat low. *Climate Dynamics*, 37 (5), pp. 1045-1060. DOI: 10.1007/s00382-010-0888-x
- Saeed, S., Müller, W.A., Hagemann, S., **Jacob, D.**, Mujumdar, M., Krishnan, R. (2011): Precipitation variability over the South Asian monsoon heat low and associated teleconnections. *Geophysical Research Letters*, 38 (8). DOI: 10.1029/2011GL046984
- Suklitsch, M., Gobiet, A., Truhetz, H., Awan, N.K., Göttel, H., **Jacob, D.** (2011): Error characteristics of high resolution regional climate models over the Alpine area. *Climate Dynamics*, 37 (1), pp. 377-390. DOI: 10.1007/s00382-010-0848-5
- Tomassini, L., Hagemann, S., Moseley, C., Haumann, A., Podzun, R., **Jacob, D.** (2011): Extremes and predictability in the European pre-industrial climate of a regional climate model. *Climate Dynamics*, 36 (11-12), pp. 2371-2397. DOI: 10.1007/s00382-010-0814-2
- Tsanis, I.K., Koutroulis, A.G., Daliakopoulos, I.N., **Jacob, D.** (2011): Severe climate-induced water shortage and extremes in Crete. *Climatic Change*, 106 (4), pp. 667-677. DOI: 10.1007/s10584-011-0048-2
- 2010 Früh, B., Feldmann, H., Panitz, H.-J., Schädler, G., **Jacob, D.**, Lorenz, P., Keuler, K. (2010): Determination of precipitation return values in complex terrain and their evaluation. *Journal of Climate*, 23 (9), pp. 2257-2274. DOI: 10.1175/2009JCLI2685.1
- Graf, H.-F., Shirsat, S.V., Oppenheimer, C., Jarvis, M.J., Podzun, R., **Jacob, D.** (2010): Continental scale Antarctic deposition of sulphur and black carbon from anthropogenic and volcanic sources. *Atmospheric Chemistry and Physics*, 10 (5), pp. 2457-2465. DOI: 10.5194/acp-10-2457-2010
- Haensler, A., Hagemann, S., **Jacob, D.** (2010): How the future climate of the southern African region might look like: Results of a high-resolution regional climate change projection. In: *Nova Acta Leopoldina*, Vol. 112 (384), pp. 183-193
- Hurkmans, R., Terink, W., Uijlenhoet, R., Torfs, P., **Jacob, D.**, Troch, P.A. (2010): Changes in streamflow dynamics in the Rhine basin under three high-resolution regional climate scenarios. *Journal of Climate*, 23 (3), pp. 679-699. DOI: 10.1175/2009JCLI3066.1
- Jacob, D.** (2010): Atmosphere: An international and interdisciplinary scientific open access journal. *Atmosphere*, 1 (1), pp. 1-2. DOI: 10.3390/atmos1010001
- Jacob, D.**, Podzun, R. (2010): Global warming below 2°C relative to pre-industrial level: How might climate look like in Europe. In: *Nova Acta Leopoldina*, NF, 71-76
- Kotlarski, S., **Jacob, D.**, Podzun, R., Paul, F. (2010): Representing glaciers in a regional climate model. *Climate Dynamics*, 34 (1), pp. 27-46. DOI: 10.1007/s00382-009-0685-6
- Kotlarski, S., Paul, F., **Jacob, D.** (2010): Forcing a distributed glacier mass balance model with the regional climate model REMO. Part I: climate model evaluation. *Journal of Climate*, 23 (6), pp. 1589-1606. DOI: 10.1175/2009JCLI2711.1
- Larsen, X.G., Mann, J., Berg, J., Göttel, H., **Jacob, D.** (2010): Wind climate from the regional climate model REM. *Wind Energy*, 13 (4), pp. 279-296. DOI: 10.1002/we.337
- Lorenz, P., **Jacob, D.** (2010): Validation of temperature trends in the ENSEMBLES regional climate model runs driven by ERA40. *Climate Research*, 44 (2-3), pp. 167-177. DOI: 10.3354/cr00973
- Menendez, C.G., de Castro, M., Boulanger, J.-P., D'Onofrio, A., Sanchez, E., Sörensson, A.A., Blazquez, J., Elizalde, A., **Jacob, D.**, Le Treut, H., Li, Z.X., Nüñez, M.N., Pessacq, N., Pfeiffer, S., Rojas, M., Rolla, A., Samuelsson, P., Solman, S.A., Teichmann, C. (2010): Downscaling extreme month-long anomalies in southern South America. *Climatic Change*, 98 (3), pp. 379-403. DOI: 10.1007/s10584-009-9739-3
- 2009 Goodess, C.M., **Jacob, D.**, Deque, M., Guttierrez, J.M., Huth, R., Kendon, E., Leckebusch, G.C.,

Lorenz, P., Pavan, V. (2009): Downscaling methods, data and tools for input to impacts assessments. In: van der Linden, P. and J.F.B. Mitchell (Eds.): ENSEMBLES: Climate Change and its Impacts: Summary of research and results from the ENSEMBLES project. Met Office Hadley Centre, Fitzroy Road, Exeter, EX1 3PB, UK pp. 59-78.

Hagemann, S., Göttel, H., **Jacob, D.**, Lorenz, P., Roeckner, E. (2009): Improved regional scale processes reflected in projected hydrological changes over large European catchments. *Climate Dynamics*, 32 (6), pp. 767-781. DOI: 10.1007/s00382-008-0403-9

Hagemann, S., **Jacob, D.** (2009): Mö gliche Auswirkungen des Klimawandels auf Deutschland. In: Fansa, M. & C. Ritzau (Eds.): Klimawandel: Globale Herausforderung des 21. Jahrhunderts. Primus Verlag Darmstadt. pp. 33-44

Jacob, D. (2009): Organisation in Verbundprojekten: Konzeptionelle Darstellung anhand der Projekte ENIGMA und BALTIMOS aus dem Bereich der Klimaforschung. In: Jost Halfmann & Falk Schützenmeister (Eds.): Organisation der Forschung: Der Fall der Atmosphärenwissenschaft. pp. 53-63. VS Verlag für Sozialwissenschaften. ISBN 978-3-531-15789-4

Jacob, D. (2009): Regionalisierte Szenarien des Klimawandel. *Raumforschung und Raumordnung*, Vol. 67 (2), pp. 89-96. DOI: 10.1007/BF03185698

Jacob, D. (2009): Regional Climate Models: Linking Global Climate Change to Local Impacts. In: R. Meyers (Ed.): Springer Encyclopedia of Complexity and Systems Science. pp. 7591-7602. New York: Springer

Jacob, D., Kotova, L., Lorenz, P., Moseley, Ch., Pfeifer S. (2009): Regional climate modelling activities in relation to the CLAVIER project. In: Quarterly Journal of the Hungarian Meteorological Service, Vol. 112 (3-4), pp. 141-153

Jacob, D., Lorenz, P. (2009): Future trends and variability of the hydrological cycle in different IPCC SRES emission scenarios - a case study for the Baltic sea region. *Boreal Environment Research*, 14 (1), pp. 100-113

Jacob, D., van den Hurk, B. (2009): Climate Change Scenarios at Global and Local Scales. In: F. Ludwig, P. Kabat, H. van Schaik, M. van der Valk (Eds.): Climate change and adaptation in the water sector, pp. 23-34, Earthscan. ISBN 978-1-84407-652-9

Krahe, P., Nilson, E., Carambia, M., Maurer, T., Tomassini, L., Bülow, K., **Jacob, D.**, Moser, H. (2009): Estimating the consequences for projections of river discharges resulting from uncertainties in climate-change modelling - Analysis of an application of a multi-model ensemble in the catchment of the river rhine [Article: Wirkungsabschätzung von Unsicherheiten der Klimamodellierung in Abflussprojektionen - Auswertung eines Multimodell-Ensembles im Rheingebiet]. *Hydrologie und Wasserbewirtschaftung*, 53 (5), pp. 316-331.

Langlais, C., Barnier, B., Molines, J.M., Fraunie, P., **Jacob, D.**, Kotlarski, S. (2009): Evaluation of a dynamically downscaled atmospheric reanalyse in the prospect of forcing long term simulations of the ocean circulation in the Gulf of Lions. *Ocean Modelling*, 30 (4), pp. 270-286. DOI: 10.1016/j.ocemod.2009.07.004

Paeth, H., Born, K., Girmes, R., Podzun, R., **Jacob, D.** (2009): Regional climate change in tropical and Northern Africa due to greenhouse forcing and land use changes. *Journal of Climate*, 22 (1), pp. 114-132. DOI: 10.1175/2008JCLI2390.1

Radvánszky, B., **Jacob, D.** (2009): The changing annual distribution of rainfall in the drainage area of the river tizza during the second half of the 21st century. *Zeitschrift für Geomorphologie*, 53 (SUPPL. 2), pp. 171-195. DOI: 10.1127/0372-8854/2009/0053-0171

Rechid, D., Raddatz, T.J., **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. *Theoretical and Applied Climatology*, 95 (3-4), pp. 245-255. DOI: 10.1007/s00704-008-0003-y

Rechid, D., Hagemann, S., **Jacob, D.** (2009): Sensitivity of climate models to seasonal variability of snow-free land surface albedo. *Theoretical and Applied Climatology*, 95 (1-2), pp. 197-221. DOI: 10.1007/s00704-007-0371-8

- Saeed, F., Hagemann, S., **Jacob, D.** (2009): Impact of irrigation on the South Asian summer monsoon. *Geophysical Research Letters*, 36 (20). DOI: 10.1029/2009GL040625
- Silvestri, G., Vera, C., **Jacob, D.**, Pfeifer, S., Teichmann, C. (2009): A high-resolution 43-year atmospheric hindcast for South America generated with the MPI regional model. *Climate Dynamics*, 32 (5), pp. 693-709. DOI: 10.1007/s00382-008-0423-5
- Starke, E., **Jacob, D.** (2009): NeWater Report2.2.2/D2.2.3. Max Planck Institute for Meteorology
- Tomassini, L., **Jacob, D.** (2009): Spatial analysis of trends in extreme precipitation events in high-resolution climate model results and observations for Germany. *Journal of Geophysical Research Atmospheres*, 114 (12). DOI: 10.1029/2008JD010652
- Van den Hurk, B., **Jacob, D.** (2009): The Art of Predicting Climate Variability and Change. In: F. Ludwig, P. Kabat, H. van Schaik and M. van der Valk (Eds.): *Climate change and adaptation in the water sector*, pp. 9- 22, Earthscan. ISBN 978-1-84407-652-9
- 2008 Feldmann, H., Früh, B., Schädler, G., Panitz, H.-J., Keuler, K., **Jacob, D.**, Lorenz, P. (2008): Evaluation of the precipitation for South-western Germany from high resolution simulations with regional climate models. *Meteorologische Zeitschrift*, 17 (4), pp. 455-465. DOI: 10.1127/0941-2948/2008/0295
- 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 (1-2), pp. 35-50. DOI: 10.1007/s10584-007-9341-5
- Hennemuth, B., Weiss, A., Bösenberg, J., **Jacob, D.**, Linne, H., Peters, G., Pfeifer, S. Quality assessment of water cycle parameters in REMO by radar-lidar synergy. *Atmospheric Chemistry and Physics*, 8 (2), pp. 287-308. DOI: 10.5194/acp-8-287-2008
- Jacob, D.** (2008): Short communication on regional climate change scenarios and their possible use for impact studies on vector-borne diseases. *Parasitology Research*, 103 (SUPPL. 1), pp. S3-S6. DOI: 10.1007/s00436-008-1099-9
- Jacob, D.**, Kotlarski, S., Göttel, H. (2008): Klimawandel und Wasserressourcen: Regionale Trends in Deutschland und Europa. *DVGW Energie- Wasser-Praxis. wgw Wirtschafts- und Verlagsgesellschaft Gas und Wasser mbH. Ausgabe Januar 2008*, 59. Jahrgang
- Kotlarski, S., **Jacob, D.**, Paul, F. (2008): Simulation of Glacier Mass and Energy Balance within a Regional Climate Model. *CliC - Ice and Climate News*, No. 10, January 2008
- Larsén, X.G., Mann, J., Göttel, H., **Jacob, D.** (2008): Wind climate and extreme winds from the regional climate model REMO. *European Wind Energy Conference and Exhibition 2008*, 2, pp. 665-674. Conference Paper
- Radvánszky, B., **Jacob, D.** (2008): A Tisza vízgyűjtőterületének várható klímaváltozása és annak hatása a Tisza vízhozamára regionális klímamodell (REMO) és a lefolyási model (HD) alkalmazásával, *Hidrológiai Közlöny, Journal of the Hungarian Hydrological Society*, Vol. 88
- Roeckner, E., **Jacob, D.** (2008): Der Klimawandel ist voll im Gang: ein Überblick. In: Lozán, J.L., H. Graßl, G. Jendritzky, L. Karbe und K. Reise (Ed.): *Warnsignal Klima: Gesundheitsrisiken?*
- Roy, S., Beig, G., **Jacob, D.** (2008): Seasonal distribution of ozone and its precursors over the tropical Indian region using regional chemistry-transport model. *Journal of Geophysical Research Atmospheres*, 113 (21). DOI: 10.1029/2007JD009712
- Wolf, A., Blyth, E., Harding, R., **Jacob, D.**, Keup-Thiel, E., Goettel, H., Callaghan, T. (2008): Sensitivity of an ecosystem model to hydrology and temperature. *Climatic Change*, 87 (1-2), pp. 75-89. DOI: 10.1007/s10584-007-9339-z
- Wyser, K., Jones, C.G., Du, P., Girard, E., Willen, U., Cassano, J., Christensen, J.H., Curry, J.A., Dethloff, K., Haugen, J.-E., **Jacob, D.**, Koltzow, M., Laprise, R., Lynch, A., Pfeifer, S., Rinke, A., Serreze, M., Shaw, M.J., Tjernström, M., Zagar, M. (2008): An evaluation of Arctic cloud and radiation processes during the SHEBA year: Simulation results from eight Arctic regional climate models. *Climate Dynamics*, 30 (2-3), pp. 203-223. DOI: 10.1007/s00382-007-0286-1

- 2007 Benko, T., Teichmann, C., Mizsey, P., **Jacob, D.** (2007): Regional effects and efficiency of flue gas desulphurization in the Carpathian Basin. *Atmospheric Environment*, 41 (38), pp. 8500-8510. DOI: 10.1016/j.atmosenv.2007.07.018
- Déqué, M., Rowell, D.P., Lüthi, D., Giorgi, F., Christensen, J.H., Rockel, B., **Jacob, D.**, Kjellström, E., De Castro, M., Van Den Hurk, B. (2007): An intercomparison of regional climate simulations for Europe: Assessing uncertainties in model projections. *Climatic Change*, 81 (SUPPL. 1), pp. 53-70. DOI: 10.1007/s10584-006-9228-x
- Gaertner, M.A., **Jacob, D.**, Gil, V., Domínguez, M., Padorno, E., Sanchez, E., Castro, M. (2007): Tropical cyclones over the Mediterranean Sea in climate change simulations. *Geophysical Research Letters*, 34 (14). DOI: 10.1029/2007GL029977
- Gálos, B., Lorenz, P., **Jacob, D.** (2007): Will dry events occur more often in Hungary in the future? (2007) *Environmental Research Letters*, 2 (3). DOI: 10.1088/1748-9326/2/3/034006
- Hagemann, S., **Jacob, D.** (2007), Ergebnisse des Klimamodells REMO für Deutschland und das Rheineinzugsgebiet. In: IWW-Schriftenreihe zum 20. Mühlheimer Wassertechnischen Seminar am 22.11.2007, Band 46. ISSN 0941-0961
- Hagemann, S., **Jacob, D.** (2007): Gradient in the climate change signal of European discharge predicted by a multi-model ensemble. *Climatic Change*, 81 (SUPPL. 1), pp. 309-327. DOI: 10.1007/s10584-006-9225-0
- Jacob, D.** (2007): Regionale Wirkungen des globalen Klimawandels. In: Müller, M., U. Fuentes & H. Kohl (Eds): *Der UN-Weltklimareport: Bericht über eine aufhaltsame Katastrophe*, KiWi Paperback
- Jacob, D.** (2007): Globaler Klimawandel und lokale Konsequenzen: regionale Klimaprojektionen schlagen die Brücke zwischen den Skalen. In: Altner, G., H. Leitschuh, G. Michelsen, U. E. Simonis & E. U. von Weizsäcker (Eds.): *Jahrbuch Ökologie 2008*. Becksche Reihe
- Jacob, D.**, Barring, L., Christensen, O.B., Christensen, J.H., De Castro, M., Deque, M., Giorgi, F., Hagemann, S., Hirschi, M., Jones, R., Kjellström, E., Lenderink, G., Rockel, B., Sanchez, E., Schär, C., Seneviratne, S.I., Somot, S., Van Ulden, A., Van Den Hurk, B. (2007): An inter-comparison of regional climate models for Europe: Model performance in present-day climate. *Climatic Change*, 81 (SUPPL. 1), pp. 31-52. DOI: 10.1007/s10584-006-9213-4
- Jacob, D.**, Göttel, H., Kotlarski S., Lorenz, P. (2007): Mögliche Klimaänderungen im Alpenraum. In: *Klimawandel in den Alpen. Fakten - Folgen - Anpassung*. Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit (BMU), Berlin
- Jacob, D.**, Hagemann, S. (2007): Regionale Klimamodelle-Konsequenzen für das Einzugsgebiet von Elbe und Rhein. *Natura 2000 und Klimaänderungen*, Tagungsband
- Kjellström, E., Barring, L., **Jacob, D.**, Jones, R., Lenderink, G., Schär, C. (2007): Modelling daily temperature extremes: Recent climate and future changes over Europe. *Climatic Change*, 81 (SUPPL. 1), pp. 249-265. DOI: 10.1007/s10584-006-9220-5
- 2006 Keup-Thiel, E., Göttel, H., **Jacob, D.** (2006): Regional climate simulations for the Barents Sea region. *Boreal Environment Research*, 11 (5), pp. 329-339.
- Rechid, D., **Jacob, D.** (2006): Influence of monthly varying vegetation on the simulated climate in Europe. *Meteorologische Zeitschrift*, 15 (1), pp. 99-116. DOI: 10.1127/0941-2948/2006/0091
- Rinke, A., Dethloff, K., Cassano, J.J., Christensen, J.H., Curry, J.A., Du, P., Girard, E., Haugen, J.-E., **Jacob, D.**, Jones, C.G., Koltzow, M., Laprise, R., Lynch, A.H., Pfeifer, S., Serreze, M.C., Shaw, M.J., Tjernström, M., Wyser, K., Zagar, M. (2006): Evaluation of an ensemble of Arctic regional climate models: Spatiotemporal fields during the SHEBA year. *Climate Dynamics*, 26 (5), pp. 459-472. DOI: 10.1007/s00382-005-0095-3
- Rinke, A., Dethloff, K., Cassano, J.J., Christensen, J.H., Curry, J.A., Du, P., Girard, E., Haugen, J.-E., **Jacob, D.**, Jones, C.G., Koltzow, M., Laprise, R., Lynch, A.H., Pfeifer, S., Serreze, M.C., Shaw, M.J., Tjernström, M., Wyser, K., Zagar, M. (2006): Erratum: Evaluation of an ensemble of Arctic regional climate models: Spatiotemporal fields during the SHEBA year (*Climate Dynamics* (2006)

- vol. 26 (5)(459-472)10.1007/s00382-005-0095-3). *Climate Dynamics*, 27 (4), pp. 433-435. DOI: 10.1007/s00382-006-0157-1
- Walter, A., Keuler, K., **Jacob, D.**, Knoche, R., Block, A., Kotlarski, S., Müller-Westermeier, G., Rechid, D., Ahrens, W. (2006): A high resolution reference data set of German wind velocity 1951-2001 and comparison with regional climate model results. *Meteorologische Zeitschrift*, 15 (6), pp. 585-596. DOI: 10.1127/0941-2948/2006/0162
- 2005 Aldrian, E., Sein, D., **Jacob, D.**, Gates, L.D., Podzun, R. (2005): Modelling Indonesian rainfall with a coupled regional model. *Climate Dynamics*, 25 (1), pp. 1-17. DOI: 10.1007/s00382-004-0483-0
- Arpe, K., Hagemann, S., **Jacob, D.**, Roeckner, E. (2005): The realism of the ECHAM5 models to simulate the hydrological cycle in the Arctic and North European area. *Nordic Hydrology*, 36 (4-5), pp. 349-367.
- Déqué, M., Jones, R.G., Wild, M., Giorgi, F., Christensen, J.H., Hassell, D.C., Vidale, P.L., Rockel, B., **Jacob, D.**, Kjellström, E., de Castro, M., Kucharski, F., van den Hurk, B. (2005): Global high resolution versus Limited Area Model climate change projections over Europe: Quantifying confidence level from PRUDENCE results. *Climate Dynamics*, 25 (6), pp. 653-670. DOI: 10.1007/s00382-005-0052-1
- Hagemann, S., **Jacob, D.** (2005): European Discharge under Climate Change Conditions Simulated by a Multimodel Ensemble. In: J. Coté (Ed.): *Research Activities in Atmospheric and Oceanic Modelling, WGNE Blue Book 2005*, WMO, Geneva, pp. 7-12
- Jacob, D.**, Bülow, K. (2005): Regional climate simulation for the investigation of the atmosphere [Article: Regionale Klimasimulationen zur Untersuchung der Niederschlagsverhältnisse in heutigen und zukünftigen Klimaten]. *PIK Report*, (95), pp. 92-96.
- Jacob, D.**, Hagemann, S. (2005): Verstärkung und Schwächung des regionalen Wasserkreislaufs – wichtiges Kennzeichen des Klimawandels. In: Lozán J.L., H. Graßl, P. Hupfer, L. Menzel & C.D. Schönwiese (Ed.): *Warnsignal Klima: Genug Wasser für alle? Wissenschaftliche Auswertungen / GEO*, Hamburg
- Jacob, D.**, Gerstengarbe, F.-W. (2005): Climate scenarios for the German side of the Elbe region [Article: Klimaszenarien für den Deutschen Teil des Elbeinzugsgebietes]. *PIK Report*, (95), pp. 89-91.
- Jacob, D.**, Goettel, H., Jungclaus, J., Muskulus, M., Podzun, R., Marotzke, J. (2005): Slowdown of the thermohaline circulation causes enhanced maritime climate influence and snow cover over Europe (2005) *Geophysical Research Letters*, 32 (21), art. no. L21711, pp. 1-5. DOI: 10.1029/2005GL023286
- Kotlarski, S., **Jacob, D.** (2005): Development of a Subgrid Scale Parameterization of Mountain Glaciers for Use in Regional Climate Modelling. *WGNE Blue Book 2005*, WMO, pp. 4-13
- Kotlarski, S., Block, A., Böhm, U., **Jacob, D.**, Keuler, K., Knoche, R., Rechid, D., Walter, A. (2005): Regional climate model simulations as input for hydrological applications, evaluation of uncertainties. *Advances in Geosciences*, 5, pp. 119-125. DOI: 10.5194/adgeo-5-119-2005
- Kotova, L., Kotlarski, S., Marien, L., **Jacob, D.**, Podzun, R. (2005): Is the Climate Change Signal Resolution Dependent? *Proceedings EGU 2005, Geophysical Research Abstracts*, Vol. 7, 04712
- Lorenz, P., **Jacob, D.** (2005): Influence of regional scale information on the global circulation: A two-way nesting climate simulation. *Geophysical Research Letters*, 32 (18). art. no. L18706, pp. 1-4. DOI: 10.1029/2005GL023351
- Mikolajewicz, U., Sein, D.V., **Jacob, D.**, König, T., Podzun, R., Semmler, T. (2005): Simulating Arctic sea ice variability with a coupled regional atmosphere-ocean-sea ice model. *Meteorologische Zeitschrift*, 14 (6), pp. 793-800. DOI: 10.1127/0941-2948/2005/0083
- Muskulus, M., **Jacob, D.** (2005): Tracking cyclones in regional model data: The future of Mediterranean storms. *Advances in Geosciences*, 2, pp. 13-19. DOI: 10.5194/adgeo-2-13-2005
- Paeth, H., Born, K., Podzun, R., **Jacob, D.** (2005): Regional dynamical downscaling over West Africa: Model evaluation and comparison of wet dry years. *Meteorologische Zeitschrift*, 14 (3),

- pp. 349-367. DOI: 10.1127/0941-2948/2005/0038
- Pfeifer, S., **Jacob, D.** (2005): Changes of the Arctic climate under the SRES B2 scenario conditions. *Meteorologische Zeitschrift*, 14 (6), pp. 711-719. DOI: 10.1127/0941-2948/2005/0076
- Semmler, T., **Jacob, D.**, Schlünzen, K.H., Podzun, R. (2005): The water and energy budget of the Arctic atmosphere. *Journal of Climate*, 18 (13), pp. 2515-2530. DOI: 10.1175/JCLI3414.1
- 2004 Aldrian, E., Dümenil-Gates, L., **Jacob, D.**, Podzun, R., Gunawan, D. (2004): Long-term simulation of Indonesian rainfall with the MPI regional model. *Climate Dynamics*, 22 (8), pp. 795-814. DOI: 10.1007/s00382-004-0418-9
- Hagemann, S., Machenhauer, B., Jones, R., Christensen, O.B., Deque, M., **Jacob, D.**, Vidale, P.L. (2004): Evaluation of water and energy budgets in regional climate models applied over Europe (2004) *Climate Dynamics*, 23 (5), pp. 547-567. DOI: 10.1007/s00382-004-0444-7
- Hennemuth, B., **Jacob, D.** (2004): Validation of atmospheric boundary layer simulations with REMO by ground-based lidar measurements. *Bulletin of the American Meteorological Society*, pp. 5139-5142. 152). Conference Paper
- Lehmann, A., Lorenz, P., **Jacob, D.** (2004): Modelling the exceptional Baltic Sea inflow events in 2002-2003. *Geophysical Research Letters*, 31 (21), pp. L21308 1-4. DOI: 10.1029/2004GL020830
- Semmler, T., **Jacob, D.**, Schlünzen, K.H., Podzun, R. (2004): Influence of sea ice treatment in a regional climate model on boundary layer values in the Fram Strait region. *Monthly Weather Review*, 132 (4), pp. 985-999. DOI: 10.1175/1520-0493(2004)132<0985:IOSITI>2.0.CO;2
- Semmler, T., **Jacob, D.** (2004): Modeling extreme precipitation events - A climate change simulation for Europe. *Global and Planetary Change*, 44 (1-4), pp. 119-127. DOI: 10.1016/j.gloplacha.2004.06.008
- 2003 Frei, C., Christensen, J.H., Deque, M., **Jacob, D.**, Jones, R.G., Vidale, P.L. (2003): Daily precipitation statistics in regional climate models: Evaluation and intercomparison for the European Alps. *Journal of Geophysical Research D: Atmospheres*, 108 (3), pp. ACL 9-1 - ACL 9-19.
- Hennemuth, B., Rutgersson, A., Bumke, K., Clemens, M., Omstedt, A., **Jacob, D.**, Smedman, A.-S. (2003): Net precipitation over the Baltic Sea for one year using models and data-based methods. *Tellus, Series A: Dynamic Meteorology and Oceanography*, 55 (4), pp. 352-367. DOI: 10.1034/j.1600-0870.2003.00020.x
- Schrump, C., Hübner, U., **Jacob, D.**, Podzun, R. (2003): A coupled atmosphere/ice/ocean model for the North Sea and the Baltic Sea. *Climate Dynamics*, 21 (2), pp. 131-151. DOI: 10.1007/s00382-003-0322-8
- 2002 Chevillard, A., Ciais, P., Karstens, U., Heimann, M., Schmidt, M., Levin, I., **Jacob, D.**, Podzun, R., Kazan, V., Sartorius, H., Weingartner, E. (2002): Transport of 222Rn using the regional model REMO: A detailed comparison with measurements over Europe. *Tellus, Series B: Chemical and Physical Meteorology*, 54 (5), pp. 850-871. DOI: 10.1034/j.1600-0889.2002.01339.x
- Hagemann, S., Machenhauer, B., Christensen, O.B., Déqué, M., **Jacob, D.**, Jones, R., Vidale, P.L. (2002): Intercomparison of regional climate models applied over Europe. Max-Planck-Institute for Meteorology, Report Nr. 338
- Hennemuth, B., **Jacob, D.** (2002): One year measurement and simulation of turbulent surface heat fluxes over the Baltic Sea. *Meteorologische Zeitschrift*, 11 (2), pp. 105-118. DOI: 10.1127/0941-2948/2002/0011-0105
- 2001 **Jacob, D.** (2001): A note to the simulation of the annual and inter-annual variability of the water budget over the Baltic Sea drainage basin. *Meteorology and Atmospheric Physics*, 77 (1-4), pp. 61-73. DOI: 10.1007/s007030170017
- Jacob, D.**, Van Den Hurk, B.J.J.M., Andrré, U., Elgered, G., Fortelius, C., Graham, L.P., Jackson, S.D., Karstens, U., Köpken, C., Lindau, R., Podzun, R., Rockel, B., Rubel, F., Sass, B.H., Smith, R.N.B., Yang, X. (2001): A comprehensive model inter-comparison study investigating the water budget during the BALTEX-PIDCAP period. *Meteorology and Atmospheric Physics*, 77 (1-4), pp. 19-43. DOI: 10.1007/s007030170015

- Jacob, D.** (2001): The role of water vapour in the atmosphere. A short overview from a climate modeller's point of view. *Physics and Chemistry of the Earth, Part A: Solid Earth and Geodesy*, 26 (6-8), pp. 523-527. DOI: 10.1016/S1464-1895(01)00094-1
- Raschke, E., Meywerk, J., Warrach, K., Andrea, U., Bergström, S., Beyrich, F., Bosveld, F., Bumke, K., Fortelius, C., Graham, L.P., Gryning, S.-E., Halldin, S., Hasse, L., Heikinheimo, M., Isemer, H.-J., **Jacob, D.**, Jauja, I., Karlsson, K.-G., Keevallik, S., Koistinen, J., Van Lammeren, A., Lass, U., Launianen, J., Lehmann, A., Liljebladh, B., Lohmeyer, M., Matthäus, W., Mengelkamp, T., Michelson, D.B., Napiórkowski, J., Omstedt, A., Piechura, J., Rockel, B., Rubel, F., Ruprecht, E., Smedman, A.-S., Stigebrandt, A. (2001): The Baltic Sea Experiment (BALTEX): A European Contribution to the Investigation of the Energy and Water Cycle over a Large Drainage Basin. *Bulletin of the American Meteorological Society*, 82 (11), pp. 2389-2413. DOI: 10.1175/1520-0477(2001)082<2389
- Renssen, H., Isarin, R.F.B., **Jacob, D.**, Podzun, R., Vandenberghe, J. (2001): Simulation of the Younger Dryas climate in Europe using a regional climate model nested in an AGCM: Preliminary results. *Global and Planetary Change*, 30 (1-4), pp. 41-57. DOI: 10.1016/S0921-8181(01)00076-5
- Semmler, T., Jacob, D., Podzun, R. (2001): Sensitivity experiments with the regional climate model REMO on the influence of the ice edge. *Proceedings of the CLIMPACT-Workshop in Tromsø, Norway, April 2 - 5, 2000*
- 2000 Graham, L.P., **Jacob, D.** (2000): Using large-scale hydrologic modeling to review runoff generation processes in GCM climate models. *Meteorologische Zeitschrift*, 9 (1), pp. 49-57
- Hagedorn, R., Lehmann, A., **Jacob, D.** (2000): A coupled high resolution atmosphere-ocean model for the BALTEX region. *Meteorologische Zeitschrift*, 9 (1), pp. 7-20
- Jacob, D.** (2000): Modelling Activities and Model Intercomparisons within BALTEX. In: *Parameterization of Surface Fluxes, Atmospheric Planetary Boundary Layer and Ocean Mixed Layer Turbulence for BRIDGE - What Can We Learn From Field Experiments?* Proceedings from a Workshop Arranged by The BALTEX Working Group on Numerical Experimentation and The BALTEX Working Group on Process Studies, Abisko, Lapland, Sweden 20- 21 June 1999, Edited by Nils Gustafsson, International BALTEX Secretariat, Publication No. 17
- Jacob, D.**, Podzun, R. (2000): Investigation of the Annual and Interannual Variability of the Water Budget Over the Baltic Sea Drainage Basin Using the Regional Climate Model REMO. WMO/JCSU/IOC report 1999
- Schlünzen, K.H., Dierer, S., **Jacob, D.**, Semmler, T. (2000): Regional Modelling. In: B. Brümmner (Ed.): *FRAMZY99 Field Phase Report*. Meteorologisches Institut, Universität Hamburg
- Semmler, T., Podzun, R., **Jacob, D.**, Juerrens, R. (2000): Comparison of ECMWF reanalyses with NCEP reanalysis. *Proceedings of the Second WCRP International Conference on Reanalyses*
- 1999 Bauer, S., Langmann, B., **Jacob, D.** (1999): An Atmospheric-Chemistry Model Hierarchy. In: *Air Pollution VII*, WIT Press, Southampton, England, pp. 719-728
- Langmann, B., Bauer, S., **Jacob, D.** (1999): Model Hierarchy for Tropospheric Chemistry Simulations. In: *Proceedings of the EUROTRAC Symposium 1998*. Edited by P. M. Borell and P. Borrel, WIT Press, Southampton, England, pp. 581-585
- 1998 Böhm U., Podzun, R., **Jacob, D.** (1998): Surface Water Balance Estimation for a Semi- Arid Region Using a Regional Climate Model and Comparison of Water Balance Components with Global Circulation Model Output and Analysis Data. In: *Physics and Chemistry of the Earth*, Vol. 23 (4), pp. 405-411. DOI: 10.1016/S0079-1946(98)00045-7
- Jacob, D.** (1998): Landwind-Seewind. In: *Umweltatlas Wattenmeer, Band 1*. Landesamt für den Nationalpark Schleswig-Holsteinisches Wattenmeer u. Umweltbundesamt (Ed.), pp. 70-71.
- Jacob, D.** (1998): Intensivierung des Wasserkreislaufes? In: J.L. Lozán, H. Graßl & P. Hupfer (Eds.): *Das Klima des 21. Jahrhunderts.*, pp. 177-178
- Langmann, B., **Jacob, D.**, Podzun, R. (1998): Development and Application of a Global to Local Model Hierarchy for the Determination of Chemical Processes in the Troposphere. In: *Sven-Erik*

- Gryning and Nadine Chaumerliac (Eds.): Air Pollution Modelling and its Application XII. Plenum Press, New York, pp. 489-495
- Schlünzen, K.H., Dierer, S., **Jacob, D.**, Semmler, T. (1998): Gekoppelte Modelle des Systems Atmosphäre/Eis. In: B. Brümmel (Ed.): Meßkampagne FRAMZY'99 Experimentplan. Meteorologisches Institut, Universität Hamburg
- 1997 **Jacob, D.**, Podzun, R. (1997): Sensitivity studies with the regional climate model REMO. Meteorology and Atmospheric Physics, 63 (1-2), pp. 119-129. DOI: 10.1007/BF01025368
- 1995 Eppel, D.P., Kapitza, H., Claussen, M., **Jacob, D.**, Koch, W., Levkov, L., Mengelkamp, H.- T., Werrmann, N. (1995): The Non-Hydrostatic Mesoscale Model GESIMA. Part II: Parameterizations and Applications. In: Beiträge zur Physik der Atmosphäre, Vol. 68, pp. 15-41. ISSN: 00058173
- Jacob, D.**, Claussen, M., Majewski, D., Podzun, R., Rockel, B. (1995): REMO - A Model for Climate Research and Weather Forecast. Research Activities in Atmospheric and Oceanic Modelling, WMO/JCSU/IOC Report
- Jacob, D.**, Podzun, R., Claussen, M. (1995): REMO – A model for Climate Research and Weather Prediction. International Workshop on Limited-Area and Variable Resolution Models, Beijing, China, 23-27 October 1995, WMO/TD No. 699
- Lal, M., **Jacob, D.**, Podzun, R., Cubasch, U. (1995): Summer Monsoon Climatology Simulated with the Regional Climate Model Nested in a General Circulation Model. International Workshop on Limited-Area and Variable Resolution Models, Beijing, China, 23-27 October 1995, WMO/TD No. 699
- 1991 **Jacob, D.** (1991): Numerische Simulation der Wolkenbildung in einer Land-Seewind- Zirkulation, GKSS Bericht 91/E/40
- 1989 Levkov, L., Jacob, D., Eppel, D., Graßl, H. (1989): Framework of Cloud Parameterization Including Ice for 3-d Mesoscale Models. GKSS-Bericht 89/E/7
- Levkov, L., **Jacob, D.**, Eppel, D., Graßl, H. (1989): Test of a parametrization scheme for cloud microphysical processes in a 3-D mesoscale model. Atmospheric Research, 24 (1-4), pp. 193-208. DOI: 10.1016/0169-8095(89)90045-8
- Niewadomski, M., Levkov, L., **Jacob, D.**, Eppel, D. (1989): Three dimensional numerical simulations of pollutant transport and acid rain formation in a mesoscale field of convective clouds. <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040902514&partnerID=40&md5=293a6a1aeab195fc8eb18fd4644450cf>