

Prof. Dr. Daniela Jacob

Born 20 June 1961, married, one daughter



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Affiliations

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Visiting professor

at Leuphana Universität Lüneburg,

Faculty of Sustainability

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H-Index of 42 (Scopus, citations received since 2002), 18.12.2018

Academic education and professional employment

Since 2016	Visiting professor at Leuphana Universität, Faculty of Sustainability, Lüneburg, Germany
Since 2015	Director of Climate Service Center Germany, Hamburg, Germany
1995 – 2015	Founder and leader of the wind energy consultant <i>anemos-jacob</i>
1993 - 2015	Scientist, Max-Planck-Institute for Meteorology, Hamburg, Germany
2014 - 2015	Acting Director, Climate Service Center 2.0, Hamburg, Germany
2013 - 2014	Deputy Director, Climate Service Center, Hamburg, Germany
2010 - 2014	Department head, Climate Service Center, 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, USA, Simulation of snow storms with the Clark model using the two-way nesting technique
1991 - 1992	Post-Doc position, GKSS Research Center, Geesthacht
May 1991	Dissertation, University of Hamburg, Meteorology: “Numerische Simulation der Wolkenbildung in einer Land-Seewind-Zirkulation”
1986 - 1991	Ph.D 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 at the Technical University Darmstadt

Community services and Contribution to working groups

Since 2018	Member of Editorial Board of Future Earth’s “State of our Planet”
Since 2018	Member of Transdisciplinary Advisory Board (TAB) of the Joint Programming Initiative “Connecting Climate Knowledge for Europe” (JPI Climate)
Since 2017	Member of Science Review Group (SRG) of the Met Office Hadley Centre (MOHC)
Since 2017	Coordinating Lead Author, IPCC SR1.5

Since 2017	Member of Deutsches Komitee für Nachhaltigkeitsforschung in Furture Earth
Since 2017	Member of Sachverständigenrat Klimaschutz NRW
Since 2017	Member of the Expert Advisory Board of the Copernicus Roadmap for European Climate Projections
Since 2017	Ex-officio member of the Earth League
Till Sep. 2017	Member of the “Senatskommision für Wasserforschung“
Since 2016	Member of the Scientific Advisory Board of the Helmholtz Centre for Environmental Research (UFZ)
Since 2015	Member of the “Thüringer Klimarat“
Since 2015	Member of the Scientific Advisory Panel of Euro-Mediterranean Center on Climate Change (CMCC)
Since 2015	Member of WASCAL Scientific Advisory Committee
Since 2015	Member of the Peer Review Board of the Neumann Institute for Computing (NIC)
Since 2015	Member of Science Advisory Committee of the 4th Adaptation Futures conference
Since 2015	Founding Editor-in-Chief for Elsevier Journal: <i>Climate Services</i>
Since 2014	Member of CORDEX Scientific Advisory Team (Extended to 2019)
Since 2014	Member of “Wissenschaftlicher Beirat“ klimafakten.de
Since 2011	Scientific Member of Kommission Wasserforschung (KOWA), DFG
Since 2011	Coordinator (together with Eleni Katragkou, Aristotle University of Thessaloniki, and Stefan Sobolowski, Bjerknæs Centre for Climate Research) of the EURO-CORDEX initiative
Since 2006	Scientific Advisory Board Member Wegener Center for Climate and Global Change, University of Graz, Austria
Since 1994	Scientific leader of model development and application of the regional climate model REMO
2014 - 2015	Member of Expert Group for the EU Roadmap on Climate Services, European Commission
2014 - 2015	Nationale Plattform Zukunftsstadt (NPZ)
2007 - 2015	Review Panel Member of the European Research Council (ERC)
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*
<http://www.mdpi.com/journal/atmosphere/>
- 2006 - 2011 Scientific Director of COSMOS
- 2006 - 2011 Member of the IOW Scientific Advisory Board, Baltic Sea Research Institute, Warnemünde
- 2005 - 2010 BALTEX Science Steering Group Member (BSSG)
- 2009 Bundesamt für Bauwesen und Raumordnung, MORO Experten-Workshop: Regionale Klimamodellierung für Anpassungsstrategien – Anforderungen, Leistungsspektrum, Grenzen
- 2009 National Komitee für Global Change Forschung, NKGCF-Rundgespräch: Umgang mit der Unsicherheit regionalen Klimaprojektionen
- 2007 - 2009 Member of the UN Expert Group on Climate Change and Water WWAP
- 2004 - 2009 Member of the ENSEMBLES Management Board
- 2004 - 2009 Deputy Head of the Department „Atmosphere in the Earth System“ at MPI-M
- 2008 DFG-Rundgespräch Regionale Klimamodelle: Was können Sie leisten? Was sollten wir von ihnen erwarten? Was für Forschungsperspektiven eröffnen sie?
- 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)
- 2003 - 2006 Project management COSMOS
- 2002 - 2005 DEKLIM-speaker for the area Baltic Sea
- 2001 - 2005 BALTEX, Chair of the BALTEX Working Group of Water and Energy Cycles
- 2000 - 2005 Associate Editor of the Magazine *Environmental Fluid Mechanics* in the publisher Kluwer. Editor-in-Chief: Benoit Cushman-Roisin
- 2002 - 2003 Member of the Scientific Steering Committee of ProMed, Project Mediterranean
- 2002 DFG-Rundgespräch Atmosphärische Vorhersage im Jahr 2020: Perspektive der deutschen Atmosphärenwissenschaften

- 1997 - 2000 Coordination Committee Member of CLIMPACT (Regional Climate Modelling and Integrated Global Change Impact Studies in the European Arctic) - an European Science Foundation Network
- 1996 - 2000 TFS-Arbeitsgruppe Evaluierung: Evaluierungsstrategie für Chemie-Transport-Modell-systeme mit Anwendung im Leitthema 1 des Förderschwerpunkts Troposphärenforschung
- 1999 Recognition by the Deutsche Meteorologische Gesellschaft as Consultant Meteorologist for the area wind energy
- 1999 BMBF-Arbeitskreis Modellierung im Rahmen des neuen Förderprogrammes zur Klimaforschung
- 1999 BMBF-Rundgespräch zu BALTEX im Rahmen des neuen Förderprogrammes zur Klimaforschung

Supervisor of diploma/master students

Completed:

- Jörn Alexander: Rückkoppelungseffekte der Vegetation auf das Klima der Barrentssee-Region im regionalen Modell REMO
- Tanja Blome: Simulationen zum Klima der Barents-See-Region: Heutiges Klima und mögliche Klimaänderungen durch eine abgeschwächte THC im Nordatlantik
- Bastian Eggert: Auswirkungen der Oberflächeneigenschaften in REMO auf die Simulation der unteren Atmosphäre.
- Stephanie Fiedler: Model Performance and Climate Change Assessment with REMO and REMO-HAM in East Asia
- Ivy Frenger: Untersuchung der Auswirkungen der Landnutzungsänderung / Landoberflächenänderung in Westafrika auf das Klima mit Hilfe des Regionalen Klimamodells REMO
- Katharina Klehmet: Klima in Ostafrika - Modellvalidierung und Untersuchung regionaler Charakteristika
- Philip Lorenz: Simulation von Starkniederschlägen während des Oderhochwassers 1997 mit REMO
- Eva Mazurkewitz: Jahrgang der Landoberflächendaten – Aufbereitung für den Mosaic-Ansatz

Juliane Petersen:	Rückwirkungen von Landnutzung und Bewässerung auf das simulierte lokale und regionale Klima der Metropolregion Hamburg
Susanne Pfeifer:	Validierung des regionalen Klimamodells REMO anhand eines extremen Schneefallereignisses im Dezember 1998 über Südschweden
Paula Poeppel:	Validierung der simulierten Wolkenstruktur an Hand von Beobachtungen aus der BBC Messkampagne
Ahmed Qureshi:	Sensitivity Study of Different Land Use Changes in the Elbe River Basin
Diana Rechid:	Untersuchung zur Parameterisierung von Landoberflächen im regionalen Klimamodell REMO
Thomas Remke:	On the variability in a regional climate model using dynamical downscaling with frequent reinitializations
Richard Schmitt:	Schneelast an Stromleitungen- Heute und in Zukunft.
Kira Schulz	Analyse von Gesundheitsindizes für Europa im wandelnden Klima

Supervisor of PhD students

Ongoing with working titles:

Gaby Landendijk:	High-resolution regional-to-local climate modelling for urban applications, with the regional climate model REMO
Shoupeng Zhu:	The influence of land use and land cover change on the regional climate.
Lennart Marien:	Einfluss komplexer Orographie auf die Niederschlagsklimatologie in REMO
Thomas Remke:	Welche Risiken bringt der Klimawandel für Windparks?
Marius Stankoweit:	Physical and Economic Vulnerability of the Electricity Grid to Climate Change

Completed:

Bastian Eggert:	Improvements and uncertainties in high-resolution climate simulations (2018, Leuphana, Lüneburg)
Susanne Bauer:	Atmosphären-Chemiemodellierung mit dem Modell GESIMA (2001, University of Hamburg, co-advisor)

- Katharina Bülow: Zeitreihenanalyse von regionalen Temperatur- und Niederschlagssimulationen in Deutschland (2009, University of Hamburg)
- Alberto Elizalde: The Water Cycle in the Mediterranean Region and the Impact of the Climate Change (2011, University of Hamburg)
- Borbola Gálos: Analysis of forest-climate interactions, applying the regional climate model REMO (2009, University of West Hungary, Sopron)
- Holger Göttel: Einfluss der nicht-hydrostatischen Modellierung und der Niederschlagsverdriftung auf die Ergebnisse regionaler Klimamodellierung (2008, University of Hamburg)
- Renate Hagedorn: Ein gekoppeltes Atmosphären-Ozean-Modell für das Ostsee-Ein-zugsgebiet (2000, University of Kiel, co-advisor)
- Ruud Hurkmans: Effects of climate variability and land use changes on the water budget of large river basins (Wageningen University, Member of the committee for the examination, June 2009, external reviewer)
- Sven Kotlarski: A subgrid glacier parameterization for use in regional climate modelling (2007, University of Hamburg)
- Philip Lorenz: Einfluss der Zwei-Wege Nestung auf die Ergebnisse globaler und regionaler Klimasimulationen (2011, University of Hamburg)
- Carolyn Narayan: IMPRS-Stipendiatin, Atmosphärischer CO₂-Transport (2006, University of Hamburg, co-advisor)
- Joni-Pekka Pietikäinen: Aerosols and climate: from regional to global modelling (2015, University of Eastern Finland)
- Susanne Pfeifer: Modelling cold cloud processes with the regional climate model REMO (2006, University of Hamburg)
- Swantje Preuschmann: Regional surface albedo characteristics - analysis of albedo data and application to land-cover changes for a regional climate model (2012, University of Hamburg)
- Christine Radermacher: Causes for regional changes in heavy precipitation over Europe (2013, University of Hamburg)
- Thomas Raub: The Water and Heat Cycles in a Coupled Ocean-Atmosphere-Model for the Baltic Sea (2014, University of Hamburg)
- Diana Rechid: On biogeophysical interactions between vegetation phenology and climate simulated over Europe (2008, University of Hamburg)

- Armelle R. Remedio: Connections between the mesoscale convective systems and the regional scale flows in South America (2013, University of Hamburg)
- Andreas Roesch: Assessment of the Land Surface Scheme in Climate Models with Focus on Surface Albedo and Snow Cover (1999, ETH Zürich, co-advisor)
- Tido Semmler: Der Wasser- und Energiehaushalt der arktischen Atmosphäre (2002, University of Hamburg)
- Kevin Sieck: Internal Variability in the Regional Climate Model REMO (2013, University of Hamburg)
- Claas Teichmann: Climate and Air Pollution Modelling in South America with Focus on Megacities (2009, University of Hamburg)

Memberships

Deutsche Meteorologische Gesellschaft

European Geophysical Union

Third-party founded project

National

BMBF founded projects

- EU-ERA4CS: INNOVA - Innovation in Climate Service Provision Oct 2017-Sep 2020 help society manage the impacts of climatic changes and find innovative climate risk management solutions.
- EU-ERA4CS: Climate Services for the Water-Energy-Land Nexus (CLISWELN) Oct 2017-Sep 2020 to advance the provision of Climate Services (CS) for drought-related decision making, by using the water-energy-land nexus (WELN) to integrate the cross-sectoral links of drought-risk management with further synergistic co-benefits between the provision of climate services and long-term societal objectives.
- HZG wissens- und transferfonds bridging the Gap Sep 2017- Aug 2019
- Advanced Earth System Modelling Capacity (ESM) Apr 2017 – Mar 2019 to contribute solving grand challenges mankind is facing by developing and applying innovative Earth system modelling capacity.

- UseUCLim – Review of practical and user serviceability of an urban climate model to foster climate proof urban development Jul 2016 - Jun 2019 Review of practical and user serviceability of an urban climate model to foster climate proof urban development -Urban Climate under Change.
- im Förderschwerpunkt KLIMZUG: KLIMZUG-NORD 2009 – 2014, Querschnittsthema KLIMA, Robustheit von Klimaänderungsmustern und Rückwirkungen von Anpassungsmaßnahmen auf das regionale Klima
- 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 und von 1970 bis 2008
- zum Schwerpunktthema GLOWA-DANUBE, 2007 – 2010, Regionale Klimamodellierung: Entwicklung und Bereitstellung von REMO-Szenarien zum Klimawandel des Wasserkreislaufs im Einzugsgebiet der Oberen Donau
- zum Schwerpunktthema BIOTA-SÜD, 2003 – 2009, Interactions between land use changes and the local and regional climate
- zur Ostseeforschung, BALTIMOS, Koordination des DEKLIM-Verbundes 2001-2005, Entwicklung und Validierung eines gekoppelten Modellsystems in der Ostseeregion
- zur Quantifizierung von Unsicherheiten in der regionalen Klimamodellierung, IVECC, 2001 – 2005 innerhalb DEKLIM, Einfluss der Vegetation auf regionale Klima- und Klimaänderungssimulationen
- zum MAPP Demonstrationsprojekt, 2000 – 2001, Wolken- und Feuchteparameter aus MERIS-Daten zur Assimilation in mesoskalige Modelle und deren Validierung
- zum Schwerpunktthema GLOWA-ELBE, 2000 – 2003, Regionale Klimasimulationen zur Untersuchung der Niederschlagsverhältnisse in heutigen und zukünftigen Klimaten
- zur Modellierung von Rheinhochwassern, 1999 – 2000, Regionales Klimamodell zur meteorologischen und hydrologischen Vorhersage extremer Ereignisse am Beispiel des Rhein-Einzugsgebietes
- zum Troposphärenforschungsschwerpunkt (TFS), 1996 – 2000, Entwicklung und Anwendung einer Modellhierarchie zur Berechnung chemischer Prozesse in der Troposphäre unter heutigen und zukünftigen Emissionsbedingungen
- zum Schwerpunktthema Wasserkreislauf, 1994 – 1997, Modellierung und numerische Experimente für BALTEX

BMVBS funded projects

- KLIWAS, 2009 – 2013, Auswirkungen des Klimawandels auf Wasserstraßen und Schifffahrt – Entwicklung von Anpassungsoptionen

UBA funded projects

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

DFG funded projects

- Consultant, deputy and sub project leader in Sonderforschungsbereich 512: Tiefdruckgebiete und Klimasystem des Nordatlantik, 1998 – 2010

Funding from EIFER (European Institute for Energy Research, Karlsruhe)

- ANKE, 2006 – 2009, Anpassungsstrategien an rezente und zu erwartende Klimatrends für EnBW

Funding from GTZ (Deutsche Gesellschaft für Technische Zusammenarbeit)

- CONGO, 2010 – 2012, Klimawandelszenarien für das Kongobecken
- POTATO, 2008 – 2011, 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

Funding from Land Niedersachsen

- Im Forschungsverbund KLIFF 2009 – 2013, QT1: Dynamical Downscaling

International***EU funded projects******FP4***

- PEP, 1997 – 2000, Long Term Measurements and Modelling of Evaporation and Precipitation
- SFINCS, 1997 – 2000, Implementation and Validation of Improved Flux Parameterizations in Climate and Weather Forecasting Models

- NEWBALTIC I and II, 1996 – 2000, Numerical Studies of the Energy and Water Cycle of the Baltic Region

FP5

- BALANCE, 2002 – 2005, Climate Change Vulnerabilities in the Barents Region: Linking Arctic natural resources, climate change and economies
- PRUDENCE, 2001 – 2004, Prediction Uncertainties describing European Climate Change and Effects

FP6

- CLAVIER, 2006 – 2009, Climate Change and Variability: Impact on Central and Eastern Europe
- CIRCE, 2007 – 2010, Climate change and Impact Research: the Mediterranean environment
- NEWATER, 2005 – 2009, New Approaches to Adaptive Water Management under Uncertainty
- GEMS, 2004 – 2010, Global and regional Earth system monitoring using Satellite and in-situ data
- ENSEMBLES, 2004 – 2009, Ensemble-based Predictions of Climate Changes and their Impacts
- CLARIS, 2004 – 2007, A Europe-South America Network for Climate Change Assessment and Impact Studies

FP7

- IMPACT2C, 2011 – 2015, Quantifying projected impacts under 2°C warming
- CLIPC, 2013 – 2016, Climate Information Platform for Copernicus
- ECLISE, 2011 – 2014, Enabling Climate Information Services for Europe
- CARBO-EXTREME, 2009 – 2013, The terrestrial Carbon cycle under Climate Variability and Extremes a Pan-European synthesis
- Climate for Culture, 2009 – 2013, Damage risk assessment, macroeconomic impact and mitigation strategies for sustainable preservation of cultural heritage in the times of climate change
- COMBINE, 2009 – 2013, Comprehensive Modelling of the Earth System for Better Climate Prediction and Projection
- ATP, 2009 – 2012, Arctic Tipping Points
- HIGHNOON, 2009 – 2012, Adaptation to changing water resources availability in northern India with Himalayan glacier retreat and changing monsoon pattern

- SafeLand, 2009 – 2012, Living with landslide risk in Europe: Assessment, effects of global change, and risk management strategies
- LAIC, 2009 – 2011, Land-Atmosphere Interactions in China
- CCTAME, 2008 – 2013, Climate Change – terrestrial Adaptation and Mitigation in Europe
- ACQWA, 2008 – 2013, Assessing Climatic Change and impacts on the quantity and Quality of Water
- CLARIS-LPB, 2008 – 2012, A Europe-South America Network for Climate Change Assessment and Impact Studies in La Plata Basin

EU funded projects

- Copernicus Climate Change Service / ECMWF: PRINCIPLES May 2017-Apr 2021 to inform policy development in Europe regarding climate change, improve the planning of mitigation and adaptation strategies, and promote the development of new services for the benefit of society.
- Copernicus Climate Change Service / ECMWF: GLORIOUS Sep 2017-Feb 2019 a Climate Data Store which will make climate information freely available to users from 2018.
- Landesforschungsförderung Hamburg : Hybride - Chancen und Herausforderungen von neuen genomischen Kombinationen (Jul 2017 - Jun 2020)
- VirtualWaterValues May 2017 – Apr 2020 Multiscale Monitoring of Global Water Resources and Options for their Efficient and Sustainable Use (project acronym ViWa)
- HAPPI-DE Apr 2017-2018: Klima- und Klimafolgenprojektionen bei 1.5°C gegenüber 2°C Erwärmung im Rahmen der HAPPI-Initiative.
- MiKlip II – Mittelfristige Klimaprognosen II Nov 2015 - Oct 2019 MiKlip has made important research contributions and has developed an internationally competitive decadal climate prediction system.
- H2020: EU-MACS- European Market for Climate Services Nov 2017-Oct 2018 The project analyses the market structures and drivers, obstacles and opportunities from scientific, technical, legal, ethical, governance and socioeconomic vantage points.

- H2020: EU-MARCO- Market Research for Climate Services Observatory Nov 2017- Oct 2018 a Climate-related tools, products, data and services may greatly contribute to climate change mitigation and adaptation.
- H2020: IMPREX – Improving predictions and management of hydrological extremes Okt 2015- Sep 2019 IMPREX is designed to improve the forecasting capability of hydrological extremes and their impacts at synoptic to seasonal time scales.
- H2020: ClimateEurope European Climate Observations, Modelling and Services -2 Dec 2015 - Nov 2020 will coordinate and support Europe’s knowledge base to enable better management of climate-related risks and opportunities thereby creating greater social and economic value.
- H2020: NAIAD - Nature Insurance Value: Assessment and Demonstration Dec 2016 - Nov 2019 aims to operationalize the insurance value of ecosystems to reduce the human and economic cost of risks associated with water.
- H2020:ERA4CS – European Research Area for Climate Services Jan 2016 - Dec 2020 the ERA4CS Consortium is aiming to boost, research for Climate Services (CS), including climate adaptation, mitigation and disaster risk management.
- Copernicus Climate Change Service / ECMWF: Clim4Energy - Sectoral Information System: Proof of Concept (Energy) Jan 2016 - Mar 2017 In this framework, a Sectoral Information System (SIS) will be established to provide access to tailored climate indicators, targeting primary users.
- Copernicus Climate Change Service / ECMWF: DECM – Data Evaluation for Climate Models (C3S_51 Lot 4) – Aug 2016 - Dec 2018 The purpose of C3S is to inform policy development in Europe regarding climate change, improve the planning of mitigation and adaptation strategies, and promote the development of new services for the benefit of society.
- Life: LOCAL ADAPT - Integration of climate change adaptation into the work of local authorities July 2016 - June 2019
- MiKlip Mittelfristige Klimaprognosen, 2009 – 2013 (1. Phase), 2013 – 2017 (2. Phase), Schaffung eines Modellsystems, um zu mittelfristigen Zeithorizonten verlässliche Aussagen zur Klimaentwicklung, der zu erwartenden Änderungen im Klima und seinen extremen Wetterausprägungen, zu gewinnen
- GLACINDIA, 2014 – 2016, Water related effects of changes in glacier mass balance and river run-off in western Himalaya, India: past, present and future
- Reklies-DE, 2013 – 2016, Verfeinerung der Analyse der globalen Modellierungsergebnisse für Deutschland und seine Bundesländer mit Schwerpunkt in der Auswertung des Szenarios RCP8.5, um die Klimaänderungen in Deutschland für dieses Hochemissionsszenario abschätzen zu können

- SASSCAL, 2013 – 2015, to conduct problem-oriented research in the area of adaptation to climate and change and sustainable land management and provide evidence-based advice for all decision-makers and stakeholders to improve the livelihoods of people in the region and to contribute to the creation of an African knowledge-based society
- The Future Okavango (TFO), 2010 – 2015, zur Untersuchung grenzübergreifenden Einzugsgebiet mit hoher internationaler Sichtbarkeit Ökosystemfunktionen und Dienstleistungen und ihrer Wechselwirkungen mit Landnutzung
- C3Grid – INAD Towards an Infrastructure for General Access to Climate Data, 2010 – 2013, zur Unterstützung des Workflows der Erdsystemforscher

Future Earth funded projects

- E3S, 2014 – 2016: Extreme Events and Environments from Climate to Society

Austrian Science funded projects

- HighEnd: Extremes, 2014 – 2017: The Future of Extreme Precipitation Events in the Alpine Region under High End Climate Change Conditions
- NHCM-2, 2013 – 2015: Non-Hydrostatic Climate Modelling, Part II

Teaching activities

- WS 18/19: Stadtklima im Klimawandel zwischen Klimaschutz und Anpassung.
Leuphana University of Lüneburg
- WS 16/17: Stadtklima im Klimawandel zwischen Klimaschutz und Anpassung.
Leuphana University of Lüneburg
- WS 15/16: Wie erhalten wir ein bioklimatisch lebenswertes Stadtklima? Leuphana University of Lüneburg
- October 2008: Autumn School on Climate change, causes and Impacts, Cyrus
- September 2007: 1st International Summer School on the MPI-M Earth System Modelling Framework. Introduction to Modelling, Hamburg
- WS 05/06: Simulation of Ecosystems at Hochschule für Angewandte Wissenschaften, Hamburg
- WS 04/05: Simulation of Ecosystems at 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* University of Hamburg

Further activities

- Numerous Interviews for magazines, newspapers, radio and TV within the past years, increasing since release of IPCC SR 1.5°C in October 2018
- 2016 - 2018 Reviewer of the Project "RESOLW - Renewable Energy Forecast by new Solarradiation- and Windnowcastingsystems" at Joanneum Research Graz
- Since 2009 Participation in Innovations-Allianz Hamburg
- 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
- Since 1995 Founder and leader of the wind energy consultant anemos-jacob
- 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
- 2009 Reviewer for Luxembourg National Research Fund
- 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 a national REMO workshop in Hamburg
- 1996 Organisation of a 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
- 1990 Co-Founder and leader of the wing energy consultant anemos
- 1988 Organisation of the 4th Seminar of Mesoscale Simulation Models of the Atmosphere in Geesthacht

Reviews for international journals

- ACSYS (Arctic Climate System Study) book
- Annales Geophysicae
- Atmospheric Environment
- Atmospheric Chemistry and Physics
- Atmospheric Research
- Boreal Environment research
- Climatic Change
- Climate Dynamics
- Climate Research
- Contribution to Atmospheric Physics

- Global and Planetary Change
- Geophysical Research Letters
- International Journal of Climatology
- IPCC WG1 Third Assessment report
- IPCC WG1 Fourth Assessment report
- Journal of Atmospheric Science
- Journal of Biogeography
- Journal of Climate
- Journal of Geophysical Research
- Journal of Hydrology
- Journal of Hydrometeorology
- Meteorologische Zeitschrift
- Meteorology and Atmospheric Physics
- Monthly Weather Review
- Natural Hazards and Earth System Sciences
- Nordic Hydrology
- On-line Journal Ocean Science
- Physics and Chemistry of the Earth
- Quarterly Journal
- Regional Environmental Change
- Studia Geophysica et Geodaetica
- Tellus
- Theoretical and Applied Climatology

Contributions to the following conferences, among others

12th International Conference on Atmospheric Aerosols and Nucleation

21st Century Challenges in Regional-Scale Climate Modelling

DACH, DMG - Deutsche Meteorologische Gesellschaft

Deltas in times of climate change II

Deutsche IPCC-Tagung Frankfurt

DKT - Deutschen Klimatagung

EGU- European Geosciences Union General Assembly

EMS, EGS Conferences

EWEC

GEWEX- global energy and water exchange project

International Conference on Cloud Physics

International Conference on ESM

International Conference on Regional Climate – CORDEX 2013

IUGG General Assembly

Nordseesymposium

Our common future under Climate Change

Study conferences on BALTEX

Selected Lectures in 2006 to 2018

2018

04.12. – ***COP 24, Katowice***

07.12. *6 talks on "IPCC: SR 1.5 °C"*

27.11. ***High Level Conference "EU research and innovation in our daily life",
Brussels***

"IPCC: SR 1.5 °C"

22.11. ***ÖWAV-Seminar „Anpassungen an den Klimawandel – Maßnahmen
der Wasserwirtschaft“, Vienna***

“IPCC: SR 1.5 °C“

15.11. ***Rundgespräch Klimaextreme, Berlin***

“Regionale Klimaextreme“

23.10. ***Konferenz “Jedes Zehntelgrad zählt: Gemeinsam handeln!“, Berlin***

“ IPCC: Die Ergebnisse des Sonderberichts: Eine Übersicht“

18.10. ***Friends of Europe: “Energy and Climate Summit 2018”***

“IPCC: SR 1.5 °C“

11.10. ***High-level Event on IPCC findings, Geneva***

“IPCC: SR 1.5 °C“

09.08. ***Wissenschaftssommer, Sylt***

“Mit Vollgas in den Klimawandel: In welcher Welt wollen wir leben?“

11.07. ***CDU Harburg-Land***

„Klimawandel in Norddeutschland – was müssen wir wissen, und was können wir tun“

2017

- 08.11. **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. **Alpbach Technology Symposium, Alpbach/Tyrol**
“How does the 1.5 °C hotter World look like?“
- 17.07. **Konferenz Energielandschaften Norddeutschland „Modellierung erneuerbarer Energieressourcen“, Hamburg**
“Klimainformationen als Grundlage zur Anpassungsunterstützung von kritischer Energieinfrastruktur - Relevanz und Anforderungen an die Modellierung“
- 10.07. **Deutsches Krebsforschungszentrum (DKFZ), Heidelberg**
“Ensembles, Klimaprojektionen und Prognosen – Warum widersprechen sich die Ergebnisse?“
- 27.06. **Beraterstammtisch Energie und Umwelt „Anpassung an den Klimawandel in Hamburg“**
“Klimawandel - Chancen und Risiken für Unternehmen“
- 05.05. **Jahresversammlung der Braunschweigischen Wissenschaftlichen Gesellschaft**
“Klima und Meer - Globaler Wandel - Lokale Konsequenzen“
- 25.04. **European Geosciences Union General Assembly 2017, Wien**
“Prototype development of user specific climate services“
- 02.02. **Jahresempfang der Grünen Ratsfraktion, Kiel**
“100% Klimaschutz!?! Wie können sich Kommunen an die Herausforderungen und Chancen des Klimawandels anpassen?“

2016

- 08.11. **Sino-German Symposium, Hamburg**
"Climate Service: Innovation and Smart Solution"
- 02.11. **Regionalkonferenz „Klimawandel Norddeutschland“, Hannover**
""Das Pariser Klimaabkommen und seine regionale Bedeutung"
- 16.03. **Mitgliederversammlung des Niedersächsischen Städte- und Gemeinbundes, Rosengarten**
"Bedeutung des Klimawandels für Kommunen"
- 21.01. **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. **DKRZ Festveranstaltung zur Einweihung des HLRE-3, Hamburg**
„Hochleistungsrechner und Datenspeicher - Grundlagen für den Klimageservice“
- 12.09. **Jahrestagung UNIVEG, Bremen**
"Entwicklung von Klimageservices für Wirtschaft, Politik und Gesellschaft"
- 08.07. **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. **Launching Workshop: A European Roadmap for Climate Services, Brussels**
"Dealing with the barriers in providing climate services - AMBASSADOR"

- 08.01. **KlimaCampus Kolloquium Hamburg,**
“Climate Services-Innovation for smart solutions”
- 2014**
- 16.10. **23. Zukunftsforum: Klimawandel – eine Herausforderung für die öffentliche Sicherheit, Zukunftsforum öffentliche Sicherheit e.V., Berlin**
“Klimawandel geht alle an”
- 06.10. **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. **„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. **IPCC AR5 Report of WG II: A Comprehensive Background and next steps, Bonn**
“Climate change in Europe”
- 28.04. **European Geosciences Union General Assembly 2014, Wien**
“Climate Change Signals in the EURO-CORDEX Simulations”
- 28.04. **Bericht des Weltklimarats IPCC 2014, BMFWF**
“Klimawandel in Europa”
- 02/03.04. **Mittel- und norddeutsche Trockenregionen im Klimawandel, Leipzig**
“Neues aus WG2”
- 01.04. **DE-IPCC Veranstaltung zu WG2, Berlin**
„Regionale Aspekte des AG2-Berichts und ihre Bedeutung für Deutschland“
- 26.02. **DVGW Forum Sichere Wasserversorgung, Mülheim**
„Auswirkungen des Klimawandels auf die Wasserversorgung- Stand der Forschung“
- 24.02. **Internationalen Konferenz CLARR 2014 –‘Auf dem Weg zu einer klimaangepassten und resilienten Region**

„Neues vom 5. Sachstandsbericht des IPCC: Zeit zum Handeln“

- 21.02. **NGO-Briefing: Vorbereitung auf Teil II und III des Weltklimaberichts, Berlin**
„Regionale Auswirkungen des Klimawandels in Deutschland/Europa“
- 13.02. **CSC-Jahrestagung, Potsdam**
„Zwischen Bandbreitenmodellen und stabilen Trends – erwartete Klimaänderungen“

2013

- 07.11. **International Conference on Regional Climate - CORDEX 2013, Brussels:**
“From GCM to RCM- from ESM to RESM”
- 03.09. **“Vom globalen Klimawandel zu regionalen Anpassungsstrategien” wurde vom Forschungsverbund KLIFF – Klimafolgenforschung in Niedersachsen, Göttingen**
„Regionaler Klimawandel: wo stehen wir heute?“
- 09.04. **Deutsche Informationsveranstaltung zum IPCC-AR5-WGII, Bonn:**
„Regionale Aspekte- Beispiel Europa“
- 20.02. **CSR Leader's Circle on Sustainable Water Management, Berlin:**
“Climate Change: from global to local action!”

2012

- 27.11. **Workshop: Terrestrial water systems under climate change: available knowledge and knowledge demands, Hamburg:**
“Soil moisture and climate change”
- 08.11. **2. Regionalkonferenz Klimaanpassung Küstenregion, Bremerhaven:**
„Stand der Klimaforschung – vom globalen zum regionalen Klima“
- 28.09. **Fachkonferenz aus Anlass des 100-jährigen Geburtstags von Budnikowsky, Hamburg:**
„Klimawandel: Herausforderungen an Industrie und Handel“
- 14.07. **Hydroinformatics Conference HIC-2012, Hamburg:**

“Regional Climate Change Projections: Bridging Global Climate Change and Local Applications”

20.03. **7. Extremwetterkongress, Hamburg:**

„Neues zu regionalen Klimaänderungen“

2011

02.11. **KLIMZUG Statuskonferenz , Berlin:**

„KLIMZUG-NORD - Strategische Anpassungsansätze zum Klimawandel in der Metropolregion Hamburg“

12.04. **6. Extremwetterkongress, Hamburg:**

Was wissen wir heute über den Klimawandel in den Metropolregionen?

30.03. **Klimaanpassung Küstenregion –Regionalkonferenz des Bundes und der norddeutschen Küstenländer, Hamburg:**

„Zukünftige Auswirkungen des Klimawandels auf die nordeutsche Küstenregion“

20.01. **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. **ENERGIE-LANDSCHAFTEN!?! - Fallen oder Chancen für ländliche Räume, 31. Bundestagung der Deutschen Landeskulturgesellschaft DLKG, Husum:**

„Klimafolgen und Energielandschaften (MPI)“

02.09. **UBA Anpassungskonferenz, Dessau-Roßlau:**

„Regionale Klimamodelle und Aussagen zu Extremwerten (europäische Projekte)“

25.08. **Hamburger Streitgespräch zum Klimawandel, Hamburg:**

„Das wird schon nicht so schlimm werden! Wie viel Katastrophenszenario braucht der Mensch?“

22.06. **DWD-Workshop: Umgang mit Klimaprojektionen, Offenbach:**

„Regionale Klimamodellensembles und die Nutzung ihrer Ergebnisse“

31.05. **CES-Conference on Future Climate and Renewable Energy: Impacts, Risks and Adaptation, Oslo:**

„Global climate change with regional consequences: challenges for adaptation“

28.05. **IMEA 7, Hamburger Feuerkasse, Hamburg:**

„Klimaforschung: Stand und konkrete Relevanz“

23.04. **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. **Workshop „Extremwetterereignisse und Ertragsausfälle in der Landwirtschaft“ , CSC, Hamburg:**

„Meteorologische Forschung zu Extremwetterereignissen – eine Herausforderung für die regionale Klimamodellierung“

18.02. **Expert-workshop Climate modelling and Climate services, German Delegation, Washington, US:**

„Regional climate modelling for climate projections and climate services“

21.01. **Vorlesung an der Senioren-Universität der HAW, Hamburg:**

„Wann wird's mal wieder richtig Sommer oder ist dies ein normaler Winter“

14.01. **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. **Climate for Culture: Kick-Off meeting**

„Global Climate change and Regional Consequences“

05.11. **SFB-512 Abschlussymposium 'Klimasystem Nordatlantik'**

„Analyse des Wasserhaushaltes nordatlantischer Zyklonen und ihr Einfluss auf das europäische Festland “

29.10. **Seminar at University of Bergen**

„Challenges in regional climate modelling“

19.08. **NW2050 Auftaktveranstaltung**

„Auswertung des Klimawandel in der Region – Klimaeffekte bis 2100“

16.06. **COSMOS General Assembly**

„Challenges in regional climate modelling“

04.06. **BayCEER-Kolloquium an der Universität Bayreuth**

„Global Climate change and Regional Consequences“

13./14.05. **Fehmarn Sund Belt: Workshop on Climate Scenarios**

„Climate Scenarios – a regional perspective“

26.03. **IBM-Symposium zu Klimaberechnung und Risikomanagement, Hamburg**

„Globaler Klimawandel und lokale Konsequenzen – neueste Erkenntnisse für den deutschsprachigen Raum“

18./19.03. **KLIWAS-Statuskonferenz des Bundesministerium für Verkehr, Bau und Stadtentwicklung**

„Methoden, Möglichkeiten und Grenzen der regionalen Klimamodellierung“

19.-21.02. **IBA-Labor Klimafolgenmanagement, Hamburg**

„Aktuelle Erkenntnisse zur Klimaentwicklung in Norddeutschland“

21.01. **Besuch der XXV. US Bosch Fellows am KlimaCampus, Hamburg**

„Regionale Klimaszenarien für die untere Mittelelbe“

2008

09.12. **GIWEP: Klimamodelle, Mühlheim/Ruhr**

„Globaler Klimawandel und regionale Konsequenzen“

28.11. **Bauphysik-Tagung 2008, Düsseldorf**

„Klimawandel bis 2100 – eine Studie für Deutschland“

- 28.11. **Wissenschaftsforum Hamburg, Kopf oder Zahl?**
„Mit dem Klimawandel rechnen: Modelle für Schutz- und Anpassungs-Strategien“
- 15.11. **Jahrestagung "Natur und Kultur in der Elbtalaue", Hitzacker**
„Regionale Klimaszenarien für die untere Mittelelbe“
- 10.11. **Institutsseminar Leuphana, Suderburg**
„Globaler Klimawandel und regionale Konsequenzen“
- 06.11. **AREVA Energietechnik, Seminarvortrag, Bremerhaven**
„Globaler Klimawandel und regionale Konsequenzen“
- 28.10. **Institutsseminar IMK-ASF, Karlsruhe**
„Globaler Klimawandel und regionale Konsequenzen“
- 04.09. **AON Rück, Seminarvortrag, Hamburg**
„Globaler Klimawandel und regionale Konsequenzen“
- 23.07. **EBZ, Stuttgart**
„Das Wetter morgen“
- 21.07. **Workshop: Hamburger Strategie zur Anpassung an den Klimawandel**
„Existiert der Klimawandel wirklich? Klimatische Wirkungen in der Metropolregion Hamburg“
- 24.06. **DWA Landesverband Bayern, Symposium „Klimawandel - Was kann die Wasserwirtschaft tun?“, Nürnberg,**
Regionale Klimamodellierung in Deutschland“
- 08.06. **Go for Climate, Initiative zum Klimaschutz, Hamburg,**
„Existiert der Klimawandel wirklich?“
- 03.04. **Augsburger Arbeitskreis, Hamburg**
„Globaler Klimawandel und lokale Konsequenzen – neueste Erkenntnisse für den deutschsprachigen Raum“
- 02.04. **Urania Vortragszentrum, Berlin: Veranstaltungsreihe "Der Klimawandel und die Internationale Sicherheit":**

„Globaler Klimawandel und lokale Konsequenzen – neueste Erkenntnisse für den deutschsprachigen Raum“

10.03. **NAFEMS 5th Anniversary CFD Seminar, Wiesbaden:**

„Globaler Klimawandel und lokale Konsequenzen: regionale Klimaprojektionen schlagen die Brücke zwischen den Skalen“

29.02. **Klimafachtagung, Hochschule für Angewandte Wissenschaften Hamburg,**

„Klimawandel: Klimatische Wirkungen in der Metropolregion Hamburg“

26.02. **Agrarforum Husum, Europ. Akademie Schleswig Holstein**

„Das Klima verändert die Welt- und wir uns mit ihr. Verantwortung für die Gesellschaft“

17.01. **Geowissenschaftliche Vorträge am Gymnasium Heidberg, Hamburg**

„Wird es in Zukunft nur noch Bilderbuchsommer geben?“

16.01. **Kreisbauernverband Schwarzenbek**

„Regionale Auswirkungen des Klimawandels auf die Landwirtschaft“

15.01. **Nautischer Verein, Hamburg**

„Globaler Klimawandel-Regionale Konsequenzen“

2007

21.11. **Alpentagung, Bundesministerium für Umwelt, Naturschutz und Reaktorsicherheit, Benediktbeuren**

„Klimawandel im Alpenraum – Heute und in der Zukunft“

16.11. **Klausurtagung Bundesministerium für Verkehr, Bau und Stadtentwicklung Potsdam**

„Globaler Klimawandel und regionale Konsequenzen: Der IPCC-Bericht und regionale Konsequenzen“

14.11. **CAIWA 2007, Int. Conference on Adaptive & Integrated Water Management, Basel**

“Downscaling climate information for water resources management: uncertainty and challenges”

06.11. **Klimawandel in Deutschland: Strategien der Anpassung, Umweltbundesamt Dessau**

„Klimaänderungen in Deutschland“

05.11. **European Water Association, Brussels**

“Report on the findings from the IPCC working groups I, II and III

18.10. **Climate Change Research Seminar, Norwegian Ministry of Education and Research, Düsseldorf**

“Possibilities and limitations for downscaling of regional climate scenarios”

04.10. **SPD Bad Bevensen**

„Globaler Klimawandel-Regionale Konsequenzen“

01.10. **BASF Ludwigshafen**

„Regionale Klimamodellierung und Klimaprojektionen für das 21. Jahrhundert“

27.09. **Climate Change and Vectors, Umweltbundesamt Berlin**

„Climate Modelling: Global and regional scenarios“

12.09 **International Conference Climate Change and Spatial Planning, De Bilt**

“Global and European Perspective: General Progress and Remaining Uncertainties”

01.08. **Wissenschaftssommer Sylt**

„Globaler Klimawandel und lokale Konsequenzen“

15.08. **World Water Week Stockholm**

“From global climate change to climate change projections in Europe”

25.06. **Niedersächsischer Landtag, Hannover**

„Klimaschutz in Niedersachsen“

12.06. **Wege zum Erhalt der Wertschöpfung durch den Transportweg Rhein, Dewitt&Company, Bonn**

„Aktuelle meteorologische Kenntnisse und Perspektiven für das Rheineinzugsgebiet“

20.05. **Int. Conference Community Testing Facilities, Lolland, Dänemark**

“A Critical View on the Baltic Sea Region’s Future”

09.05. **Parlament. Abend Bundesverband Deutsche Binnenschifffahrt, Berlin**

„Klimawandel in Europa - Auswirkungen auf die deutschen Bundeswasserstraßen“

26.04. **Bremer Energie-Konsens, Bremen**

“Globaler Klimawandel und lokale Konsequenzen”

16.04. **Bündnis 90/Die Grünen, Rathaus Stuttgart**

“Das Wetter morgen”

08.03. **Kernkraftwerke Isar, Essenbach**

“Klimaentwicklung unter regionalen Aspekten”

22.02. **DB AG, Strategieklausur Potsdam:**

“ Globaler Klimawandel und lokale Konsequenzen”

12.02. **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”

31.01. **Brucerius Law School, Hamburg**

“Regionale Klimamodellierung”

26.01. **Wegener Center Graz, Seggau Workshop on Local Impacts of Climate Change**

“Downscaling: From global climate change to climate change projections in Europe”

23.01. **Landfrauenverein Stelle u. Umgebung, Winsen**

“Globaler Klimawandel-Regionale Auswirkungen“

18.01. **TuTech, Hamburg-Bergedorf**

„Climate Change in Northern Europe“

2006**14.12. HAW Seminar, FH Bergedorf**

„Globaler Klimawandel mit lokalen Konsequenzen – Regionale Klimamodelle schlagen die Brücke zwischen den Skalen“

12.12. Kolloquium Institut für Ostseeforschung Warnemünde:

„Globaler Klimawandel mit lokalen Konsequenzen: Womit müssen wir rechnen?“

05.12. Mitgliederversammlung Windenergie-Agentur Bremen:

„Globaler Klimawandel - regionale Auswirkungen auch in Deutschland?“

15.11. Brauner Risk, Mutenz, CH

„Extremwetter auch in der Schweiz? Was die neue regionale Klimaprognose für die Schweiz erwarten lässt“

09.11. TLUG, Jena

„Eine klimatische Vorschau für Deutschland bis zum Jahr 2100 mit dem regionalen Klimamodell REMO“

06.11. ZUFO Symposium, Münster

„Klimawandel in Europa – Auswirkungen auf die Wasserverfügbarkeit“

17.10. UBA Klimagipfel, Berlin

„Regionale Klimaszenarien für Deutschland“

16.10. WVV Würzburg

„Globaler Klimawandel mit lokalen Konsequenzen – womit müssen wir rechnen?“

10.10. E.ON Kernkraft, Goslar

„Klimaentwicklung unter regionalen Aspekten“

26.09. EC JRC, Brüssel:

“Overview of Climate Change Projections in Europe”

12.09. DWS Investment Konferenz, Zürich:

„Globaler Klimawandel mit lokalen Konsequenzen – Womit müssen wir rechnen?“

11.09. **Österreichischer Umweltdachverband, Neukirchen a. Großvenediger:**

„Klimawandel – Globale und regionale Klimamodelle“

01.09. **Kreisverwaltung Plön, Agenda 24:**

„Mögliche Klimaveränderung in Norddeutschland: was wissen wir wirklich?“

29.08. **Vortrag vor Berufsschullehrern, Universität Hamburg:**

„Globaler Klimawandel mit lokalen Konsequenzen: Womit müssen wir rechnen?“

11.04. **Annaberger Klimatage:**

„Review der regionalen Klimamodellierung“

27.04. **Freising, University Weihenstephan:**

„Wie wirkt sich der Klimawandel auf die Niederschlagsereignisse aus?“

Publications

H-Index of 42 (Scopus, citations received since 2002), 18.12.2018

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)

- 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.; Vliet, M.T.H.van (2018): Climate Impacts in Europe Under +1.5°C Global Warming. In: Earth's Future. Vol. 6 (2), pp 264-285. DOI: 10.1002/2017EF000710
- Kjellstroem, E.; Nikulin, G.; Strandberg, G.; Christensen, O.B.; **Jacob, D.**; Keuler, K.; Lenderink, G.; Meijgaard, E.van; Schaer, C.; Somot, S.; Soerland, S.L.; 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. In: Earth System Dynamics. Vol. 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. In: Climatic Change. Vol. 151 (2), pp 157–171. 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. and Kaurola, J. (2018): The regional climate model REMO (v2015) coupled with the 1-D freshwater lake model FLake (v1): Fenno-Scandinavian climate and lakes. In: Geosci. Model Development. Vol. 11 (4), pp 1321-1342. DOI: 10.5194/gmd-11-1321-2018
- Schuck-Zoeller, S.; Cortekar, J.; **Jacob, D.** (2018): Evaluation transdisziplinaerer Forschung und deren Rahmenbedingungen. Vorueberlegungen zur Nutzung im Bereich von Klimageservice. In: Fteval Journal for Research and Technology Policy Evaluation. Vol. 45, pp 28-37
- Teichmann, C.; Buelow, 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. In: Atmosphere [Online Ressource]. Vol. 9 (4), pp 115. 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. In: Climate Services. DOI: [10.1016/j.cliser.2018.11.002](https://doi.org/10.1016/j.cliser.2018.11.002)
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- Weber, T.; Hänsler, 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. In: *Climate Dynamics*. Vol. 51 (7-8), pp 2841-2855. DOI: .1007/s00382-017-4052-8
- Xu, J.; Koldunov, N.; Remedio, A.R.C.; Sein, D.; Zhi, X.; Jiang, X.; Xu, M.; Zhu, X.; Fraedrich, K. and **Jacob, D.** (2018): On the role of horizontal resolution over the Tibetan Plateau in the REMO regional climate model. In: *Climate Dynamics*. Vol. 51 (11-12), pp 4524-4542. DOI: 10.1007/s00382-018-4085-7

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