Lad vand og data strømme
Research output: Book/Report › Report – Annual report year: 2019 › Commissioned › peer-review

Water use in electricity generation for water-energy nexus analyses: The European case
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Comparison of the impacts of urban development and climate change on exposing European cities to pluvial flooding
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Infrastructure Systems in a Sustainable City
La Greca, S., Drews, M., Åkermann, M., Larsen, M. A. D. & Halsnæs, K., 2017
Research output: Book/Report › Report – Annual report year: 2017 › Research › peer-review

New vigour involving statisticians to overcome ensemble fatigue
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Sea level adaptation decisions under uncertainty
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Simulation of Optimal Decision-Making Under the Impacts of Climate Change
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Assessing the influence of groundwater and land surface scheme in the modelling of land surface-atmosphere feedbacks over the FIFE area in Kansas, USA
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Climate change impacts on groundwater hydrology – where are the main uncertainties and can they be reduced?
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review
Local control on precipitation in a fully coupled climate-hydrology model
Larsen, M. A. D., Christensen, J. H., Drews, M., Butts, M. B. & Refsgaard, J. C., 2016, In : Scientific Reports. 6, 9 p., 22927.

Methodologies for managing the Energy-Water-Food nexus at different scales

Socio-economic Impacts—Offshore Activities/Energy

Water consumption in the energy sector

A source term estimation method for a nuclear accident using atmospheric dispersion models

Improved Regional Climate Model Simulation of Precipitation by a Dynamical Coupling to a Hydrology Model

Influence of urban land cover changes and climate change for the exposure of European cities to flooding during extreme precipitation

Influence of urban land cover changes and climate change for the exposure of European cities to flooding during high-intensity precipitation

Influence of urban land cover changes and climate change for the exposure of European cities to flooding during extreme precipitation
Influence of urban land cover changes for the exposure of European cities to flooding during high-intensity rainfall events
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Key drivers and economic consequences of high-end climate scenarios: uncertainties and risks
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Regional modelling of the Earth System: a summary of recent work
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2015 › Research › peer-review

Scalability of regional climate change in Europe for high-end scenarios
Christensen, O. B., Yang, S., Boberg, F., Maule, C. F., Thejl, P., Olesen, M., Drews, M., Sørup, H. J. D. & Christensen, J. H., 2015, In : Climate Research. 64, 1, p. 25–38
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Simple future weather files for estimating heating and cooling demand
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Using Landsat Vegetation Indices to Estimate Impervious Surface Fractions for European Cities
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

A framework for testing the ability of models to project climate change and its impacts
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

A model validation framework for climate change projection and impact assessment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Coupled regional climate and hydrology modelling at the catchment scale
Research output: Contribution to Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Embedding complex hydrology in the regional climate system – Dynamic coupling across different modelling domains
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Europe in a 6 degrees warmer climate
Integrated Climate and Hydrology Modelling - Catchment Scale Coupling of the HIRHAM Regional Climate Model and the MIKE SHE Hydrological Model: Extended abstract
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Remote sensing estimates of impervious surfaces for hydrological modelling of changes in flood risk during high-intensity rainfall events
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research

Remote sensing estimates of impervious surfaces for hydrological modelling of changes in flood risk during high-intensity rainfall events
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Remote sensing estimates of impervious surfaces for pluvial flood modelling
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2015 › Research › peer-review

Results from a full coupling of the HIRHAM regional climate model and the MIKE SHE hydrological model for a Danish catchment
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Satellite estimates of urban development for hydrological modelling
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research

The application of a dynamic OpenMI coupling between a regional climate model and a distributed surface water-groundwater model
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Economic assessment of climate change adaptation options incorporating Bayesian networks: An integrated framework
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2013 › Research

Embedding complex hydrology in the climate system - towards fully coupled climate-hydrology models
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review
WAXS simulations
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

An introduction to data assimilation modelling using an extended Kalman filter on an atmospheric release of radioactive material
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research

Experimental evaluation of gamma fluence-rate predictions from Argon-41 releases to the atmosphere over a nuclear research reactor site
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Kalman filtration of radiation monitoring data from atmospheric dispersion of radioactive materials
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

State space model analysis of a radionuclide atmospheric dispersion experiment
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2004 › Research

Atmospheric dispersion of argon-41 from a nuclear research reactor: measurement and modeling of plume geometry and gamma radiation field
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Atmospheric dispersion of argon-41 from a nuclear research reactor: Measurement and modelling of plume geometry and gamma radiation field
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Gaussian plume model analysis of atmospheric dispersion measurements of radioactive releases from the BR1 research reactor in Mol, Belgium
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Measurements of plume geometry and argon-41 radiation field at the BR1 reactor in Mol, Belgium
Research output: Book/Report › Report – Annual report year: 2002 › Research

Projects:

Extreme Storm Surges and Climate Risk Assessment
Andrée, E., Drews, M. & Larsen, M. A. D.
01/09/2018 → 31/08/2021
Future Danube: Multi-hazard and Risk Model
Nielsen, M. R., Drews, M. & Kaspersen, P. S.
01/01/2017 → 01/01/2018
Project: Research

Climate Resilience Labelling
Nielsen, M. R., Drews, M. & Bay, L.
01/07/2018 → ...
Project: Research

RECREATE
Nielsen, M. R., Drews, M. & Bay, L.
01/07/2013 → 31/07/2018
Project: Research

Horizon 2020 Insurance
01/05/2017 → 30/04/2020
Project: Research

Kan man forbedre ’værdien’ af et klimamodel-ensemble ved hjælp af statistik?
Drews, M. & Larsen, M. A. D.
01/07/2017 → 31/12/2017
Project: Research

COHERENT: Coastal Hazard Risk Reduction and Management
Innovation Fund Denmark
01/11/2017 → 30/10/2020
Project: Research

Coastal flooding hazards due to storm surges and subsidence
Industrial PhD
01/03/2014 → 07/02/2018
Project: PhD

Data assimilation in atmospheric dispersion of radioactive material
Drews, M., Madsen, H., Lauritzen, B., Poulsen, N. K., Finck, R. R. & Holst, J.
Risø (Løn)
01/10/2000 → 18/03/2005
Project: PhD

City Development, Urban Systems and the Impacts of Climate Extremes
Kaspersen, P. S., Drews, M., Arnbjerg-Nielsen, K., Madsen, H., Münster, M., Sandholt, I. & Kreibich, H.
Centerfinansieret
15/12/2012 → 19/01/2017
Project: PhD

Improved representation of renewable energy sources in integrated assessment modelling of energy and climate change policies
Balyk, O., Karlsson, K. B., Schröder, S. T., Drews, M., Espegren, K. A. & Ravn, H. V.
Centerfinansieret
01/02/2010 → 03/12/2014
Project: PhD
OASIS+/ Open access catastrophe modelling driving adaptation to enable resilience in an uncertain future
Larsen, M. A. D., Halsnæs, K., Drews, M. & Kaspersen, P. S.
01/01/2016 → …
Project: Research

HYACINTS: HYdrological Modelling for Assessing Climate Change Impacts at different Scales
Larsen, M. A. D. & Drews, M.
01/01/2008 → 31/12/2013
Project: Research

REEEM: Role of technologies in an Energy Efficient Economy – Model-based analysis of policy measures and transformation pathways to a sustainable energy system
Larsen, M. A. D., Karlsson, K. B., Drews, M. & Balyk, O.
01/01/2016 → 01/07/2019
Project: Research

Activities:

How European projections have changed through 20 years of multi-model ensemble projects
Ole Bøssing Christensen (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Jens Hesselbjerg Christensen (Guest lecturer), Martin Drews (Guest lecturer), M. Stendel (Guest lecturer)
14 Oct 2019 → 18 Oct 2019
Activity: Talks and presentations › Conference presentations

Effects of periodic forcing anomalies on storm surge prediction in the North Sea-Baltic Sea transition zone
Elin Andrée (Guest lecturer), Martin Drews (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Kristine Skovgaard Madsen (Guest lecturer)
9 Sep 2019 → 13 Sep 2019
Activity: Talks and presentations › Conference presentations

Benchmarking seasonal prediction of inflows to hydropower systems against a statistical approach
Martin Drews (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer)
24 Jun 2019 → 28 Jun 2019
Activity: Talks and presentations › Conference presentations

Projections of the future European water use in electricity generation and related vulnerabilities
Morten Andreas Dahl Larsen (Speaker), Martin Drews (Guest lecturer), Kenneth Bernard Karlsson (Guest lecturer)
24 Jun 2019 → 28 Jun 2019
Activity: Talks and presentations › Conference presentations

Dynamic modelling of coastal flooding hazard risk management
Kirsten Halsnæs (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Mads Lykke Dømgaard (Guest lecturer), Per Skougaard Kaspersen (Guest lecturer), Martin Drews (Guest lecturer)
7 Apr 2019 → 12 Apr 2019
Activity: Talks and presentations › Conference presentations

Improved storm surge prediction: Event based comparison of atmospheric forcing data in the North Sea – Baltic Sea transition area
Elin Andrée (Guest lecturer), Kristine Skovgaard Madsen (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Martin Drews (Guest lecturer)
7 Apr 2019 → 12 Apr 2019
Activity: Talks and presentations › Conference presentations

The potential to reduce uncertainties in probabilistic storm surge impact assessments
Martin Drews (Guest lecturer), Thordis Thorarinssdotir (Guest lecturer), Peter Guttorp (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Kirsten Halsnæs (Guest lecturer), Peter Thejl (Guest lecturer)
7 Apr 2019 → 12 Apr 2019
Activity: Talks and presentations › Conference presentations

From PRUDENCE and ENSEMBLES to CORDEX - What’s the difference?
Ole Bøssing Christensen (Speaker), Jens Hesselbjerg Christensen (Other), Morten Andreas Dahl Larsen (Other), Martin Drews (Other), Martin Stendel (Other)
28 Jan 2019 → 30 Jan 2019
Activity: Talks and presentations › Conference presentations

Enhanced Confidence in Regional Climate Projections from Dynamical Downscaling
Morten Andreas Dahl Larsen (Guest lecturer), Jens Hesselbjerg Christensen (Guest lecturer), Martin Drews (Guest lecturer), Ole Bøssing Christensen (Guest lecturer), Martin Stendel (Guest lecturer)
23 Oct 2018 → 25 Oct 2018
Activity: Talks and presentations › Conference presentations

Do we know more about climate change than during PRUDENCE?
Morten Andreas Dahl Larsen (Speaker), Ole Bøssing Christensen (Guest lecturer), Martin Drews (Guest lecturer), Martin Stendel (Guest lecturer), Jens Hesselbjerg Christensen (Guest lecturer)
15 Jun 2018
Activity: Talks and presentations › Conference presentations

Regional Climate Change for Europe; From PRUDENCE and ENSEMBLES to CORDEX – a consistent story
Jens Hesselbjerg Christensen (Guest lecturer), Morten Andreas Dahl Larsen (Guest lecturer), Ole Bøssing Christensen (Guest lecturer), Martin Stendel (Guest lecturer), Martin Drews (Guest lecturer)
13 Apr 2018
Activity: Talks and presentations › Conference presentations

Challenges of Data Availability for Analysing the Water-Energy Nexus
Morten Andreas Dahl Larsen (Other), Martin Drews (Speaker), Stefan Petrovic (Other), Kenneth Bernard Karlsson (Other)
5 Feb 2018 → 7 Feb 2018
Activity: Talks and presentations › Conference presentations

Consistency and Main Differences Between European Regional Climate Downscaling Intercomparison Results: From PRUDENCE and ENSEMBLES to CORDEX
Ole Bøssing Christensen (Speaker), Morten Andreas Dahl Larsen (Other), Martin Drews (Other), Martin Stendel (Guest lecturer), Jens Hesselbjerg Christensen (Guest lecturer)
25 Jan 2018 → 28 Jan 2018
Activity: Talks and presentations › Conference presentations

Challenges of Data Availability for Analysing the Water-Energy Nexus
Morten Andreas Dahl Larsen (Speaker), Martin Drews (Other), Stefan Petrovic (Other), Kenneth Bernard Karlsson (Other)
13 Dec 2017
Activity: Talks and presentations › Conference presentations