Identifying fit-for-purpose lumped surrogate models for large urban drainage systems using GLUE
Research output: Research - peer-review › Journal article – Annual report year: 2019

A first iteration of an eco-efficiency assessment applied to coastal protection technologies: Potentials, Sources of uncertainty, Application
Research output: Commissioned › Report – Annual report year: 2018

A framework for performing comparative LCA between repairing flooded houses and construction of dikes in non-stationary climate with changing risk of flooding
Research output: Research - peer-review › Journal article – Annual report year: 2018

Applying Socioeconomic Optimisation on Blue-Green Climate Adaptation Projects in an Urban Catchment
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Applying Socioeconomic Optimisation on Blue-Green Climate Adaptation Projects in an Urban Catchment
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

A rapid urban flood inundation and damage assessment model
Research output: Research - peer-review › Journal article – Annual report year: 2018

Assessing spatial correlations of sea surges around Copenhagen
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

Coastal protection technologies in a Danish context
Research output: Commissioned › Report – Annual report year: 2018

Early stage planning tools for stormwater quantity and quality management in Denmark and China
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Effects of spatio-temporal scale and uncertain urban development on long-term planning of urban water management
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Evaluating catchment response to artificial rainfall from four weather generators for present and future climate
Research output: Research - peer-review › Journal article – Annual report year: 2018

Explorative analysis of thirteen years of radar rainfall data
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018
Hess opinions: An interdisciplinary research agenda to explore the unintended consequences of structural flood protection
Research output: Research - peer-review › Journal article – Annual report year: 2018

How to make our models relevant for decision-makers by using stakeholder analysis?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Impacts of urban development on urban water management at varying spatial and temporal scales
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Importance of Subdivision Resolution of Surrogate Models for Emulating Catchment Response and Surcharge
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Influence of the environmental context: assessing stream water quality under conditions of multiple stress
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Initial conditions of urban permeable surfaces in rainfall-runoff models using Horton’s infiltration
Research output: Research - peer-review › Journal article – Annual report year: 2017

Making urban water management relevant to society by quantifying stakeholder objectives
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Operationelle udlederkrav for regnbetingede overløb fra fællessystemer til vandløb
Research output: Commissioned › Report – Annual report year: 2018

Regulating combined sewage discharges to support EU Water Framework Directive ambitions in natural water bodies
Research output: Commissioned › Report – Annual report year: 2018

Simulating flood risk under non-stationary climate and urban development conditions - Experimental setup for multiple hazards and a variety of scenarios
Research output: Research - peer-review › Journal article – Annual report year: 2018

Professor om kystsikring: Ingen universelle løsninger
Research output: Communication › Net publication - Internet publication – Annual report year: 2017

Professor om kystsikring: København er vigtigere end Jylland
Research output: Research › Net publication - Internet publiccation – Annual report year: 2017

Hygge-stormfoden og den falske sikkerhed
Research output: Research › Net publication - Internet publication – Annual report year: 2017

Adaptation to flood risk: Results of international paired flood event studies
Research output: Research - peer-review › Journal article – Annual report year: 2017

A fast surrogate model tailor-made for real time control
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

A probabilistic approach to urban flooding from sea surges in Copenhagen
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017
A regional and nonstationary model for partial duration series of extreme rainfall
Research output: Research - peer-review › Journal article – Annual report year: 2017

Assessing the importance of spatio-temporal RCM resolution when estimating sub-daily extreme precipitation under current and future climate conditions
Research output: Research - peer-review › Journal article – Annual report year: 2016

Assessment of Urban Pluvial Flood Risk and Efficiency of Adaptation Options Through Simulations – A New Generation of Urban Planning Tools
Research output: Research - peer-review › Journal article – Annual report year: 2017

Automatiseret simplificering af 1D hydraulisk model – med hensyn til 1D-2D oversvømmelsesberegninger
Research output: Research - peer-review › Journal article – Annual report year: 2017

Comparative LCA of repairing flooded houses versus construction of a dam
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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

Effects of climate model interdependency on the uncertainty quantification of extreme rainfall projections
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Environmental impacts of stormwater management and pollutant discharges
Research output: Research - peer-review › Poster – Annual report year: 2017

Environmental impacts of stormwater management and pollutant discharges
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Essential Societal Service Functions and Planetary Boundaries: The Case of Sustainable Urban Water Management
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Evaluation of high resolution spatio-temporal precipitation extremes from a stochastic weather generator
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Explorative analysis of long time series of very high resolution spatial rainfall
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Flood damage assessment – Literature review and recommended procedure
Research output: Commissioned › Report – Annual report year: 2017

Formulating and testing a method for perturbing precipitation time series to reflect anticipated climatic changes
Research output: Research - peer-review › Journal article – Annual report year: 2017

Hydrologic impact of urbanization with extensive stormwater infiltration
Research output: Research - peer-review › Journal article – Annual report year: 2017

Kronik: Havet skyller ind over Danmark - hvad gør vi?
Research output: Communication › Net publication - Internet publication – Annual report year: 2017

Regional frequency analysis of short duration rainfall extremes using gridded daily rainfall data as co-variate
Research output: Research - peer-review › Journal article – Annual report year: 2017
SAHM - Simplification of one-dimensional hydraulic networks by automated processes evaluated on 1D/2D deterministic flood models
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Scenario-Neutral Simulation of Flood Risk for Multiple Drivers
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Setup for Scenario-free Modelling of Urban Flood Risk in Non-stationary Climate and Urban Development Conditions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Simplification of one-dimensional hydraulic networks by automated processes evaluated on 1D/2D deterministic flood models
Research output: Research - peer-review › Journal article – Annual report year: 2017

Sustainability assessment of stormwater management systems
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Sustainability assessment of stormwater management systems and the importance of pollutants in runoff
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Testing high resolution synthetic rainfall time series representing current and future climates on CSO and other indicators
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Weather radar rainfall data in urban hydrology
Research output: Research - peer-review › Review – Annual report year: 2017

Accounting for multiple functions in environmental life cycle assessment of storm water management solutions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

A new tool for quantifying the hydrological effects of LID retrofit designs – the power of simplicity
Research output: Research - peer-review › Paper – Annual report year: 2016

An interdisciplinary approach to identify adaptation strategies that enhance flood resilience and urban liveability
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Applying the "WSUD potential"-tool in the framework of the Copenhagen Climate Adaptation and Cloudburst Management Plans
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Assessment of Coastal and Urban Flooding Hazards Applying Extreme value Analysis and Multivariate Statistical techniques A Case study in Elwood, Australia
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Developing Fast and Reliable Flood Models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Downscaling future precipitation extremes to urban hydrology scales using a spatio-temporal Neyman–Scott weather generator
Research output: Research - peer-review › Journal article – Annual report year: 2016
Drivers of flood damage on event level
Research output: Research - peer-review › Poster – Annual report year: 2016

Drivers of flood damage on event level
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Effect of climate change on stormwater runoff characteristics and treatment efficiencies of stormwater retention ponds; a case study from Denmark using TSS and Cu as indicator pollutants. SpringerPlus, 5:1984, 1-12.
Research output: Research - peer-review › Journal article – Annual report year: 2016

Efficiency of stormwater control measures for combined sewer retrofitting under varying rain conditions: Quantifying the Three Points Approach (3PA)
Research output: Research - peer-review › Journal article – Annual report year: 2016

En opdatering af regnearket til Skrift 30
Research output: Research › Preface/postscript – Annual report year: 2016

Environmental impacts of flood control measures in climate change adaptation strategies
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Environmental life cycle assessment of urban storm water management
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Explanatory analysis of the relationship between atmospheric circulation and occurrence of flood generating events in a coastal city
Research output: Research - peer-review › Journal article – Annual report year: 2015

Flood risk assessment as an integral part of urban planning
Research output: Research - peer-review › Poster – Annual report year: 2016

Håndtering af regnvand i byer – herunder LAR
Research output: Research › Preface/postscript – Annual report year: 2016

High-resolution rainfall time series for future climate
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Hurra! Hurra?!
Research output: Communication › Journal article – Annual report year: 2016

Identification and Application of Surrogate Models for Urban Drainage Modelling
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Impacts of urban development and climate change in exposing cities to pluvial flooding

Joint optimization of regional water-power systems
Research output: Research - peer-review › Journal article – Annual report year: 2016

Life Cycle Assessment of Cloudburst Management Plans in Adaptation to Climate Change in Copenhagen, Denmark
Research output: Research - peer-review › Poster – Annual report year: 2016
Life cycle assessment of stormwater management in the context of climate change adaptation
Research output: Research - peer-review › Journal article – Annual report year: 2016

Life cycle assessment of stormwater management systems for Nørrebro, Copenhagen
Research output: Research - peer-review › Poster – Annual report year: 2016

Modelling the impact of Water Sensitive Urban Design technologies on the urban water cycle

Modificering af regnserier så de reflekterer et ændret klima
Research output: Research › Sound/Visual production (digital) – Annual report year: 2016

Modificering af regnserier så de reflekterer et ændret klima
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Perturbing high-resolution precipitation time series to represent future climates
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Probabilistic modelling of sea surges in coastal urban areas
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Sustainable flood risk management – What is sustainable?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Systematic testing of flood adaptation options in urban areas through simulations
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Urban drainage research and planning. Quo vadis?
Research output: Research - peer-review › Book chapter – Annual report year: 2016

What does it take to practice sustainable flood risk management?
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Research output: Research - peer-review › Journal article – Annual report year: 2015

A new tool for quantifying the impacts of water sensitive urban design – the power of simplicity
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

An Integrated Modelling Framework to Assess Flood Risk under Urban Development and Changing Climate
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

An Integrated Modelling Framework to Assess Flood Risk under Urban Development and Changing Climate
Research output: Communication › 2D/3D (physical products) – Annual report year: 2015

An urban flood risk assessment method using the Bayesian Network approach
Research output: Research › Ph.D. thesis – Annual report year: 2015

Comparing Methods of Calculating Expected Annual Damage in Urban Pluvial Flood Risk Assessments
Research output: Research - peer-review › Journal article – Annual report year: 2015
Comparison of different statistical downscaling methods to estimate changes in hourly extreme precipitation using RCM projections from ENSEMBLES
Research output: Research - peer-review › Journal article – Annual report year: 2014

Coupling Modelling of Urban Development and Flood Risk – An Attempt for a Combined Software Framework
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Determining the extent of groundwater interference on the performance of infiltration trenches
Research output: Research - peer-review › Journal article – Annual report year: 2015

Et samfund i forandring
Research output: Research - peer-review › Book chapter – Annual report year: 2015

Evaluating adaptation options for urban flooding based on new high-end emission scenario regional climate model simulations
Research output: Research - peer-review › Journal article – Annual report year: 2015

Exploring Elwood's flood challenges: A Collaborative Approach for a Complex Problem
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Faktaboks om ekstremregn
Research output: Research - peer-review › Book chapter – Annual report year: 2015

Flood risk assessment as an integral part of urban planning
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Flood risk assessment as an integral part of urban planning
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Hvad betyder klimaændringer for Danmark?
Research output: Research - peer-review › Book chapter – Annual report year: 2015

Identifying added value in high-resolution climate simulations over Scandinavia
Research output: Research - peer-review › Journal article – Annual report year: 2015

Identifying climate analogues for precipitation extremes for Denmark based on RCM simulations from the ENSEMBLES database
Research output: Research - peer-review › Journal article – Annual report year: 2015

Influence of urban land cover changes and climate change for the exposure of cities to flooding during high-intensity precipitation
Research output: Research - peer-review › Journal article – Annual report year: 2015

Influence of urban land cover changes and climate change for the exposure of European cities to flooding during extreme precipitation
Research output: Research › Poster – Annual report year: 2015

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

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

LAR-potentiale: a new planning tool to support sustainable stormwater management
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Life Cycle Assessment of Cloudburst Management Plans in Adaptation to Climate Change
Research output: Research - peer-review › Poster – Annual report year: 2015

Life Cycle Assessment of Cloudburst Management Plans in Adaptation to Climate Change in Copenhagen, Denmark
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Long term variations of extreme rainfall in Denmark and southern Sweden
Research output: Research - peer-review › Journal article – Annual report year: 2015

Modelling the impact of retention–detention units on sewer surcharge and peak and annual runoff reduction
Research output: Research - peer-review › Journal article – Annual report year: 2015

Optimization of Multipurpose Reservoir Systems Using Power Market Models
Research output: Research - peer-review › Journal article – Annual report year: 2015

Past, present and future variations of extreme rainfall in Denmark
Research output: Research › Ph.D. thesis – Annual report year: 2015

Quantification the Effects of Water Sensitive Urban Design in a Simplifying Manner
Research output: Research - peer-review › Poster – Annual report year: 2015

Quantitative potential for stormwater control measures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Sub-daily extreme precipitation under current and future climate conditions from high resolution RCMs
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Sustainable Urban Drainage Systems: Using rainwater as a resource to create resilient and liveable cities
Research output: Commissioned - peer-review › Report – Annual report year: 2015

Using the three points approach to see beyond extremes for urban hydrology
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Værktøj til vurdering af LAR-potentiale
Research output: Communication › Journal article – Annual report year: 2015

A Bayesian Approach for Uncertainty Quantification of Extreme Precipitation Projections Including Climate Model Interdependency and Nonstationary Bias
Research output: Research - peer-review › Journal article – Annual report year: 2014

A decision-making framework for flood risk management based on a Bayesian Influence Diagram
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014
Climatic changes of extreme precipitation in Denmark from 1874 to 2100
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2014

Climatic changes of extreme precipitation in Denmark from 1874 to 2100
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Describing concurrent flood hazards in a risk assessment decision framework using a bayesian network methodology
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Describing concurrent flood hazards in a risk assessment decision framework using a bayesian network methodology
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Evaluating climate change adaptation options for urban flooding in Copenhagen based on new high-end emission scenario simulations
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Extreme precipitation in a future climate: assessing climate factors at sub-daily scales from regional climate model projections
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Extreme precipitation in a future climate: assessing climate factors at sub-daily scales from regional climate model projections
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Flood Resilience in Water Sensitive Cities: how do we reduce flood risk and why should we do it?
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Floods and climate: emerging perspectives for flood risk assessment and management
Research output: Research - peer-review › Journal article – Annual report year: 2014

Identifying added value in two high-resolution climate simulations over Scandinavia
Research output: Research - peer-review › Poster – Annual report year: 2014
Identifying added value in two high-resolution climate simulations over Scandinavia
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2014

Implications of long-term oscillations in rainfall extremes on urban drainage design practices
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Implications of long-term oscillations in rainfall extremes on urban drainage design practices
Research output: Research › peer-review › Article in proceedings – Annual report year: 2014

Klimafaktorer og dimensionsgivende regnintensiteter: Skrift nr.30
Research output: Research › Report – Annual report year: 2014

Klimamodeller og fremtidens ekstremnedbør
Research output: Research › Journal article – Annual report year: 2014

Long term oscillations in Danish rainfall extremes
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2014

Modelling of green roof hydrological performance for urban drainage applications
Research output: Research › peer-review › Journal article – Annual report year: 2014

Modelling of spatio-temporal precipitation relevant for urban hydrology with focus on scales, extremes and climate change
Research output: Research › Ph.D. thesis – Annual report year: 2014

Modelling the impact of implementing Water Sensitive Urban Design on at a catchment scale
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2014

Modelling the impact of retention-detention units on sewer surcharge and peak and annual runoff reduction
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Nyt skrift fra Spildevandskomiteen om regn – nye intensiteter, klimafaktorer og værktøjer til branchen
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Nyt skrift på vej fra spildevandskomiteen
Research output: Research › Journal article – Annual report year: 2014

Past, present, and future variations of extreme precipitation in Denmark: Technical report
Research output: Research › peer-review › Report – Annual report year: 2014

Uncertainties in extreme precipitation under climate change conditions
Research output: Research › Ph.D. thesis – Annual report year: 2014

Uncertainty assessment of urban pluvial flood risk in a context of climate change adaptation decision making
Research output: Research › peer-review › Conference abstract in journal – Annual report year: 2014

Validation of two high-resolution climate simulations over Scandinavia
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Virker klimatilpasning i en meget varmere verden?
Research output: Communication › Journal article – Annual report year: 2014
Adaption to Extreme Rainfall with Open Urban Drainage System: An Integrated Hydrological Cost-Benefit Analysis
Research output: Research - peer-review › Journal article – Annual report year: 2013

A framework for joint management of regional water-energy systems
Research output: Research › Ph.D. thesis – Annual report year: 2013

An influence diagram for urban flood risk assessment through pluvial flood hazards under non-stationary conditions
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

A simple rainfall-runoff model for the single and long term hydrological performance of green roofs
Research output: Research - peer-review › Paper – Annual report year: 2013

A spatial and nonstationary model for the frequency of extreme rainfall events
Research output: Research - peer-review › Journal article – Annual report year: 2013

Assessing damage cost estimation of urban pluvial flood risk as a mean of improving climate change adaptations investments
Research output: Research - peer-review › Paper – Annual report year: 2013

Assessing future climatic changes of rainfall extremes at small spatio-temporal scales
Research output: Research - peer-review › Journal article – Annual report year: 2013

Byens kredsløb - fortid, nutid og fremtid
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Climate change adaptation to increased urban flood risk: comparing the socio-economic efficiency of water sensitive urban design practices with upgrading traditional infrastructure
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Climate Change Impacts on Rainfall Extremes and Urban Drainage: a State-of-the-Art Review
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Climate Change Impacts on Rainfall Extremes and Urban Drainage: a State-of-the-Art Review
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Climatic changes of extreme precipitation in Denmark from 1872 to 2100
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Correlations between rainfall data and insurance damage data related to sewer flooding for the case of Aarhus, Denmark
Research output: Research - peer-review › Paper – Annual report year: 2013

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

Effects of climate model interdependency and common biases on the uncertainty quantification of extreme rainfall projections
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Effects of climate model interdependency and common biases on the uncertainty quantification of extreme rainfall projections
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2013
Effects of climate model interdependency on the uncertainty quantification of extreme rainfall projections
Research output: Research - peer-review › Poster – Annual report year: 2014

Impacts of climate change on rainfall extremes and urban drainage systems: A review
Research output: Research - peer-review › Journal article – Annual report year: 2013

Kalibrering af en regngenerator til brug for nedskalering af klimastudier
Research output: Research - peer-review › Report chapter – Annual report year: 2013

Long term oscillations in rainfall extremes
Research output: Research - peer-review › Poster – Annual report year: 2013

On the importance of observational data properties when assessing regional climate model performance of extreme precipitation
Research output: Research - peer-review › Journal article – Annual report year: 2013

Perturbing a Stochastic Weather Generator with Different Climate Change Signals to Assess Extreme Precipitation under Influence of Climate Change at Urban Scales
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Quantitative potentials for rainwater handling using the "Three Points Approach" (3PA)
Research output: Research - peer-review › Paper – Annual report year: 2013

Regional interdependency of precipitation indices across Denmark in two ensembles of high-resolution RCMs
Research output: Research - peer-review › Journal article – Annual report year: 2013

Simple værktøjer til helhedsorienteret vurdering af alternative teknologier til regnvandshåndtering
Research output: Research › Sound/Visual production (digital) – Annual report year: 2013

Steps towards Quantitative Assessment of the Effects of Water Sensitive Urban Design
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

The role of uncertainty in climate change adaptation strategies — A Danish water management example
Research output: Research - peer-review › Journal article – Annual report year: 2012

Towards Adaptive Urban Water Management: Up- Scaling Local Projects
Research output: Research - peer-review › Journal article – Annual report year: 2013

Un diagramme d'influence pour l'évaluation des risques d'inondations urbaines au travers des dangers de rejet pluvial dans des conditions non-stationnaires
Research output: Research - peer-review › Paper – Annual report year: 2013

Using a weather generator to downscale spatio-temporal precipitation at urban scale
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Using satellite imagery to assess the influence of recent urban development on the impacts of extreme rainfall
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Using satellite Imagery to assess the influence of urban development on the impacts of extreme rainfall
Research output: Research - peer-review › Poster – Annual report year: 2013
Limitations and pitfalls of climate change impact analysis on urban rainfall extremes
Research output: Research - peer-review › Paper – Annual report year: 2012

Quantification of climate change effects on extreme precipitation used for high resolution hydrologic design
Research output: Research - peer-review › Journal article – Annual report year: 2012

Quantitative potential for rainwater use
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Rainfall in the urban context: Forecasting, risk and climate change
Research output: Research - peer-review › Journal article – Annual report year: 2012

Risikostyring i vandforsyningen
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Uncertainty assessment of climate change adaptation options in urban flash floods
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Uncertainty assessment of climate change adaptation using an economic pluvial flood risk framework
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Urban drainage design and climate change adaptation decision making
Research output: Research › Ph.D. thesis – Annual report year: 2012

Vand i byer
Research output: Research › Report chapter – Annual report year: 2012

Variations of extreme rainfall in space and time
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Verification of flood damage modelling using insurance data
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

Water in Urban Areas in a Climate Change Perspective: Challenges and Research Needs
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

A risk-based evaluation tool for feasible urban drainage design under influence of climate change
Research output: Research › Article in proceedings – Annual report year: 2011

Climate Change Impacts on Flood risk in Urban Areas due to Combined Effects of Extreme Precipitation and Sea Surges
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Decision strategies for handling the uncertainty of future extreme rainfall under influence of climate change
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Economic assessment of climate adaptation options for urban drainage design in Odense, Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011
Effect of climate change on stormwater characteristics and treatment efficiencies of stormwater retention ponds
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Estimation of climate factors for future extreme rainfall: Comparing observations and RCM simulations
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Integration of Hydropower in a Competitive power market model for water-energy scenario analysis
Research output: Research › peer-review › Article in proceedings – Annual report year: 2012

Markov chain modeling of precipitation time series: Modeling waiting times between tipping bucket rain gauge tips
Research output: Research › peer-review › Article in proceedings – Annual report year: 2011

Nøgletal for miljøfarlige stoffer i spildevand fra renseanlæg - på baggrund af data fra det nationale oversvømmingsprogram for punktkilder 1998-2009
Research output: Research › Report – Annual report year: 2012

Past, present, and future design of urban drainage systems with focus on Danish experiences
Research output: Research › peer-review › Journal article – Annual report year: 2011

Statistical Modeling of Long Historical Rain Series
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2011

Uncertainty assessment of climate change adaptation options in urban flash floods
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2011

Use Of Risk Analysis Frameworks In Urban Flood Assessments
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2011

Water in urban areas: Building sustainable cities in light of climate change
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2011

Climate change mitigation and adaptation
Research output: Research › Journal article – Annual report year: 2010

Design practice for urban drainage including climate change impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Design practice for urban drainage incorporating climate change impacts
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Fremtidige klimatilpasningsteknologier
Research output: Research › Report – Annual report year: 2010

Hvordan tilpasser vi os til et ændret klima?
Research output: Research › peer-review › Journal article – Annual report year: 2010

Parametric analysis of regional trends in observed extreme rainfall in Denmark
Research output: Research › Article in proceedings – Annual report year: 2010
Tendenser i den observerede økstrem regn i Danmark
Research output: Research › Book chapter – Annual report year: 2010

Climate change impact assessment on urban rainfall extremes and urban drainage: methodologies and difficulties
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Design of urban drainage: Past, present, and future
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Design of urban drainage structures incorporating climate change impacts in a risk framework
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Dimensionering af afløbssystemer ved hjælp af både regnserier og dimensioneringsregn
Research output: Research › Poster – Annual report year: 2009

Feasible adaptation strategies for increased risk of flooding in cities due to climate change
Research output: Research › peer-review › Journal article – Annual report year: 2009

Infrastructure and climate change
Research output: Research › Book chapter – Annual report year: 2009

Infrastruktur og klimaændringer: Workshop afholdt som led i workshopserien DTU Climate Change Technologies 1. september
Research output: Research › Report – Annual report year: 2009

Quantification of anticipated future changes in high resolution design rainfall for urban areas
Research output: Research - peer-review › Journal article – Annual report year: 2009

Update of regional intensity-duration-frequency curves in Denmark: Tendency towards increased storm intensities
Research output: Research - peer-review › Journal article – Annual report year: 2009

Vandbremsen skal slås fra: Kronik
Research output: Communication › Journal article – Annual report year: 2009

Forventede ændringer i ekstremregn som følge af klimaændringer
Research output: Research › Report – Annual report year: 2008

Identifying economically and technically feasible adaptation strategies for mitigation of flood risks in cities. Two case studies from Denmark
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Klimadebatten kører - hvordan håndterer vi stigende risiko for oversvømmelser?
Research output: Communication › Journal article – Annual report year: 2008

Modernizing sewers and wastewater systems with new technologies: The Danish action plan for promotion of eco-efficient technologies - Danish lessons
Research output: Research › Net publication - Internet publication – Annual report year: 2008

Quantification of climate change impacts on extreme precipitation used for design of sewer systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008
Stricter regulatory goals improve Danish waste water systems: The Danish action plan for promotion of eco-efficient technologies - Danish lessons
Research output: Research › Net publication - Internet publication – Annual report year: 2008

Risk assessment of Giardia duodenalis and Cryptosporidium parvum in Danish drinking water
Research output: Research › Report – Annual report year: 2008

Quantitative risk assessment for human infection by the protozoans Giardia and Cryptosporidium related to different water uses in Denmark: Paper 73
Research output: Research › Conference abstract in proceedings – Annual report year: 2005

Bearbejdning af målinger af regnbetingede udledninger af Npo og miljøfremmede stoffer fra fællessystemer i forbindelse med NOVA 2003
Research output: Research › Report – Annual report year: 2002

Hvor meget forurener afløbssystemer i regnvær?
Research output: Communication › Journal article – Annual report year: 2002

Biologiske effekter af toksiske stoffer i regnbetingede udløb
Research output: Research › Report – Annual report year: 2001

Regnvand fra veje kan påvirke vandlevende organismer
Research output: Communication › Journal article – Annual report year: 2001

Artificial neural networks and grey-box modelling: A comparison
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Generering af kunstige regnserier
Research output: Research - peer-review › Report – Annual report year: 1999

Integer Valued Autoregressive Models for Tipping Bucket Rainfall Measurements
Research output: Research - peer-review › Journal article – Annual report year: 1999

On the selection of historical rainfall series for simulation of urban drainage
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Opdatering af tilstande i afløbssystemer ved brug af on-line målinger
Research output: Research - peer-review › Report – Annual report year: 1999

Regional variation af ekstremregn i Danmark
Research output: Research - peer-review › Report – Annual report year: 1999

Urban pollution runoff modelling from combined sewer overflows
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

A rationale for using local and regional point rainfall data for design and analysis of urban storm drainage systems
Research output: Research - peer-review › Journal article – Annual report year: 1998
Calibration of tipping bucket rain gauges
Research output: Research - peer-review › Journal article – Annual report year: 1998

Findes der en dimensioneringspraksis for afløbssystemer?
Research output: Research › Journal article – Annual report year: 1998

Formulating and testing a rain series generator based on tipping bucket gauges
Research output: Research - peer-review › Journal article – Annual report year: 1998

Historical rainfall series: crucial and doubtful model input
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

Modelling the embedded rainfall process using tipping bucket data
Research output: Research - peer-review › Journal article – Annual report year: 1998

Use of Historical Rainfall Series for Hydrological Modelling. Selected Proceedings of the Third International Workshop on Rainfall in Urban Areas, Pontresina, Switzerland, December 4-7
Research output: Research - peer-review › Book – Annual report year: 1998

Use of historical rainfall series for hydrological modelling - workshop summary
Research output: Research - peer-review › Journal article – Annual report year: 1998

A rationalistic approach to using local and regional rainfall data for design and analysis of urban storm drainage systems
Research output: Research › Paper – Annual report year: 1997

Consequences for established design practice from geographical variation of historical rainfall data
Research output: Research - peer-review › Journal article – Annual report year: 1997

Forbedring af projekteringsgrundlaget for afløbssystemer ved brug af kunstige regnserier
Research output: Research › Journal article – Annual report year: 1997

Integer valued autoregressive models for rainfall measurement processes
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997

Modelling the Embedded Rainfall Process using Tipping Bucket Data
Research output: Research - peer-review › Article in proceedings – Annual report year: 1997

Statistical analysis of urban hydrology with special emphasis on rainfall modelling
Research output: Research › Ph.D. thesis – Annual report year: 1997

Use of historical rainfall series for hydrological modelling. 3rd International Workshop on Rainfall in Urban Areas, Pontresina, Switzerland, December 4-7. Preprints of papers
Research output: Research - peer-review › Book – Annual report year: 1997

Assessment of uncertainties in state-of-the-art urban storm drainage
Research output: Research - peer-review › Article in proceedings – Annual report year: 1996

Interpretation of regional variation of extreme values of point precipitation in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 1996

Modelling of tipping bucket gauges: single rain events and rain series
Research output: Research - peer-review › Article in proceedings – Annual report year: 1996
Mulighed for generering af lokale kunstige regnserier
Research output: Research › Journal article – Annual report year: 1996

Prediction of hydrological reduction factor and initial loss in urban surface runoff from small ungauged catchments
Research output: Research - peer-review › Journal article – Annual report year: 1996

The importance of inherent uncertainties in state-of-the-art urban storm drainage modelling for ungauged small catchments
Research output: Research - peer-review › Journal article – Annual report year: 1996

Databehandling og stokastisk modelling af regn og regnafstrømning i byer - Rapport til Den kommunale Momsfond herunder rapportering af projektet: "Bearbejdning af ti års regndata til projektering af afløbsystemer"
Research output: Research › Report – Annual report year: 1995

Modelling of Tipping Bucket Rain Gauges: Single Rain Events, Rain Series and Geographical Variation
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 1995

Modelling of Rain Data - Single Rain Events
Research output: Research › Report – Annual report year: 1995

Modelling of Regional-Scale Spatial Variation of Historical Rainfall Data
Research output: Research - peer-review › Paper – Annual report year: 1995

Mulighed for generering af lokale kunstige regnserier
Research output: Research › Paper – Annual report year: 1995

Properties of Extreme Rainfall Based on Measurements from Tipping Bucket Gauges
Research output: Research - peer-review › Poster – Annual report year: 1995

Usikkerhedsfaktorer ved afløbstekniske beregninger
Research output: Research › Paper – Annual report year: 1995

Non-Parametric Statistics on Extreme Rainfall
Research output: Research - peer-review › Journal article – Annual report year: 1994

Usikkerhedsvurdering af urban afstrømning: 2. analyse af eksisterende opland
Research output: Research - peer-review › Journal article – Annual report year: 1994

Usikkerhedsvurdering af urban afstrømning fra små oplande
Research output: Research - peer-review › Journal article – Annual report year: 1994

Ekstremregn og urban afstrømning
Research output: Research › Report – Annual report year: 1993

Statistical Tools Applied on Urban Storm Drainage
Research output: Research - peer-review › Article in proceedings – Annual report year: 1993

Projects:
Statistical Downscaling of Precipitation to Very High Spatio-Temporal Resolutions  
Project: PhD

Balancing Costs and Benefits of New Urban Water Management Objectives for Both Real Time Applications and Urban Planning  
Project: PhD

Digital tools for landscape architects: A case study of digital tools used for analyzing and screening climate adaptation challenges in the early design phase  
Project: Research

Statistisk analyse af nedbør og dens betydning for afløbssystemer  
Project: PhD

Kvantitativt potentiale for regnvandshåndtering  
Project: PhD

Surrogate modeling of inundation for both real time control and planning applications  
Project: PhD

Life-cycle assessment of climate adaption technologies for stormwater management  
Project: PhD

Using long weather forecast to improve integrated wastewater management  
Project: PhD

City Development, Urban Systems and the Impacts of Climate Extremes  
Project: PhD

Bayesian methods for uncertainty analysis of extremes based on multi-model techniques  
Project: PhD

Uncertainty and adaptive estimation in storm- and wastewater system modelling  
Project: PhD

Non-stationary time series models of hydrologic extremes  
Project: PhD

Modeling the impact of soakaways on urban water flooding  
Project: PhD

Risk Management of Climate Extremes in an Urban Environment  
Project: PhD

Reducing uncertainty in future extreme precipitation  
Project: PhD

Urban Runoff Design under influence of Climate Change  
Project: PhD

Optimal Allocation of Water and Land Resources at the Catchment Scale  
Project: PhD
Integrated modelling of sustainable urban stormwater systems  
Project: PhD

A simulation-optimization approach for coupled water-energy systems  
Project: PhD

Risk-based design in a changing climate  
Project: Research

From surveillance to risk management – Risk management in the water supply  
Project: Research

Innovation network for environmental Technology (Innovationsnetværk på miljøteknologi)  
Project: Research

Risk based design in a changing climate  
Project: Research

Future climate change technologies  
Project: Research

Reducing uncertainty in future extreme precipitation (RUFEP)  
Project: Research

Centre for regional change in the Earth system  
Project: Research

Water in Urban Areas - partnership for climate change adaptation and innovation  
Project: Research

Renere teknologi til håndtering ogrensning af separat regnvand  
Project: Research

National climate change adaptation webportal, input on Water  
Project: Research

Collaboration with "Spildevandskomiteen": Skrift 29  
Project: Research

Evaluation tools targeted at Water and Water Supply Technologies  
Project: Research

19K: Innovation in the municipal technical administration and public utilities - in interplay with private companies, knowledge institutions and trade networks  
Project: Research

Geographical variation of extreme point rainfall  
Project: Research
**Geographical variation of extreme point rainfall**
Project: Research

**Stochastic modelling of high-resolution rainfall time series**
Project: Research

**Activities:**

**Coastal protection technologies in a Danish context**
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Sustainability assessment of stormwater management systems and the importance of pollutants in runoff**
Activity: Talks and presentations › Conference presentations

**Water in urban area**
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.