

Day	Level	ID	Abstract Title	Presenter
1	1	5	Building-resolved simulations with the urban microscale model PALM-4U for case studies in Vienna, Austria	Maja Zuvela-Aloise
1	1	16	A simple thermal model to estimate the urban energy stored in Mexico City	Victor L Barradas
1	1	18	Kikayon 1.0: Bridging the microclimatic design gap using a parametric tool for designing and quantifying street-level outdoor shade	Or Aleksandrowicz
1	1	21	Impact of urban physics on simulation of thunderstorms	Priya Kumari
1	1	30	Transforming the City into a Garden: Simulating the cooling effects of vegetation in tropical Singapore on ENVI-met	Graces Ching
1	1	35	Improvement and verification of urban extreme temperature predictions with satellite and ground observations in Austria (VERITAS-AT)	Sandro Michael Oswald
1	1	41	Analysis of urban surface heat balance using satellite remote sensing data	Yujiro Hirano
1	1	46	Analysis of urban hot spots and nocturnal ventilation in hilly terrain	Florian Steigerwald
1	1	50	Similarities and dissimilarities between flow over realistic urban layouts and idealized building arrays	Jiachen Lu
1	1	53	Quantifying the impact of urbanization and regional climate change in the wintertime surface temperature changes over a rapidly growing tropical city	Nandini Gopinath
1	1	62	What is the impact of urban climate on indoor heat stress? - Simulation results with urban climate and building models	Astrid Ziemann
1	1	65	Investigation of industrial heat transmission between two land masses in a tropical city of Singapore	Juan Angel Acero
1	1	68	Laboratory Level Test Setup for Studying Cool Coating Effect on Street Canyon's Air Temperature Using Reduced Scale Model	E V S Kiran Kumar Donthu
1	1	70	The effect of the microclimate of the city of Helsinki on carbon sinks	Minttu Havu
1	1	74	Impact of planned urban expansion on the urban heat island intensity	Sandra Souza
1	1	78	Heat and cold urban islands and its effects on thermal comfort in the tropical coastal city of Fortaleza (Brazil)	Isabel Ribeiro
1	1	79	Parametrizing the impact of heterogeneous urban canopies on local climate using nudging	Ge Cheng
1	1	87	First comparison of urban routine numerical weather predictions and large aperture scintillometry observations	Beth Saunders
1	1	98	Toward a Local Climate Zone-based drag and mixing length parametrization for the urban environment	Tim Nagel

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1	2	103	100m urban simulations over Singapore using uSINGV	Pratiman Patel
1	2	105	Extensive validation of SOLWEIG for regional-scale thermal exposure mapping in Phoenix, Arizona, USA	Isaac Buo
1	2	109	Evaluation of the microscale climate model PALM using professional and crowdsourced weather data for a heatwave period in August 2020 in Bochum	Lara van der Linden
1	2	44	Clothing color effect as a target of the smallest scale climate change adaptation	Toshiaki Ichinose
1	2	63	How do local heat islands depend on horizontal superelevation? Analysis of model simulations in urban neighbourhoods of the cities of Dresden and Erfurt (Germany)	Valeri Goldberg
1	2	67	Evaluating the accuracy of black-globe thermometer to determine mean radiant temperature on human thermal comfort in summer	Hyunjung Lee
1	2	24	Localized Heat Alert Response System using Smart Thermostats	Arlene Oetomo
1	2	32	Mental Health and Air Temperature: Attributable Risk Analysis for Schizophrenia Hospital Admissions in Arid Urban Climates	Peter J Crank
1	2	52	Overheating adaptations in acclimatised Singaporeans: Do spatial adaptation options matter?	Manon Kohler
1	2	58	Urban canopy, heat and health in Adelaide: Identifying possible hotspots of inequality	Carlos Bartesaghi Koc
1	2	20	The impacts of shade on pedestrian behavior	Michelle Levenson
1	2	28	Estimation of current and future human thermal comfort levels on very hot summer days in Lisbon	Cláudia E. Reis
1	2	37	Modelling long-term trends in spatially distributed mean radiant temperature in a complex urban environment using a convolutional encoder-decoder network	Ferdinand Briegel
1	2	42	Investigating the impact of meso- and local-scale atmospheric circulations on urban climate and thermal bioclimate in a dense-populated, coastal Mediterranean city	Christos Giannaros
1	2	55	Evidence of alliesthesia during a neighborhood thermal walk in a hot and dry city	Yuliya Dzyuban
1	2	57	Effects of urbanization on heat stress under relatively dry and wet warm conditions in a semiarid urban environment	Francisco Salamanca
1	2	85	Quantitative effect of green coverage changes within an E-W street canyon as a planning measure to enhance human thermal comfort in summer	Hyunjung Lee
1	2	92	Thermal Comfort Characterization of Compact Mid-rise Local Climate Zone and its Morphological Variables Correlation in the city of Hyderabad, India	Siva Ram Edupuganti
1	2	155	Can cool roof and green roof mitigate urban heat and improve the human thermal comfort during extreme heatwave condition?	Samiran Khorat

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1	3	160	Key psychological drivers for thermal comfort perception in humid subtropical outdoor spaces: The role of vegetation dynamics	Sana Javaid
1	3	165	Mitigating Urban Warming with Earthen Materials: A Neighborhood scale microclimate study across multiple residential Local Climate Zones	Henry A Ibitolu
1	3	170	Analysing Outdoor Thermal Comfort due to proximity to water surface in Tropical Humid Climate - Case Study in Kolkata Municipal Area	Rohini Mazumder Chakraborty
1	3	111	Quantifying Personal Thermal Exposures for Diverse Populations and Climate Contexts Across Space and Time	Gisel Guzman-Echavarria
1	3	27	W-UCP, a WUDAPT development of an open-source tool for deriving Urban Canopy Parameters to facilitate uWRF and other fit-for-purpose modeling applications	Michael Mau Fung Wong
1	3	45	A global map of Local Climate Zones to support earth system modelling and urban scale environmental science	Matthias Demuzere
1	3	83	Applying Local Climate Zone classification to study future land use impacts: Case study from Helsinki metropolitan area	Milla Mikkola
1	3	127	AI-Enhanced Generation of Building-Scale Features for Urban Environmental Research	Daniel G Aliaga
1	3	156	Highlights of the WUDAPT Decade	Jason KS Ching
1	3	164	Potential of WUDAPT as common language across various communities in supporting resilient and healthy urban planning – A review	Yuan Shi
1	3	167	Significance of using building height and imperviousness information in improving LCZ classification	Kwun Yip Fung
1	3	129	Contributions to climate-resilient city development: Proposal for urban climate studies from Kassel, Germany	Shakir Ahmed
1	3	31	How do urban carbon dioxide emissions, urban scale and population density relate to each other? A literature based discovery	Santosh Kumar
1	3	82	When simulations last too long and experts are out of reach – Alternative method to obtain first and simple quantification of the effectiveness of adaptation measures to heat	Uta Moderow
1	3	112	Human-biometeorologically adapted routing for optimizing leisure behavior and planning processes	Lena Albert
1	3	157	Scientists, Practitioners, and a Disconnect: Perspectives on (Un-) Intended Co-benefits, Trade-offs, and Disservices of Heat Mitigation	Florian A. Schneider
1	3	168	Weighting Mechanics and the Spatial Pattern of Composite Metrics of Heat Vulnerability in Atlanta, Georgia, USA	Joseph Karanja
1	3	172	Smaller and medium sized cities (SMSC) should also be climate informed, resilient and sustainable - A scoping review on research foci among SMSC globally	Brandon Ryan
1	3	173	Climate Action Plans for US Cities – A Textual Content Analysis and Evaluation	Murat Atasoy

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2	4	7	Evaluating the spatiotemporal variations of daytime surface and canopy urban heat islands: An arid climate case study	Elham Shafieiyoun
2	4	14	Urban summer shade under hot and arid conditions and the prospects of outdoor heat stress reduction: results of a large-scale monitoring campaign	Or Aleksandrowicz
2	4	22	Mapping changes in tree, turfgrass, and senesced vegetation cover during a multi-year drought in Los Angeles, California	David L Miller
2	4	26	Urbanization and the Evolving Heat Islands over the Indian Region	Soumya Satyakanta Sethi
2	4	39	Shady Results: The Impact of Solar Radiation Shields on Measuring Urban Heat Parameters in Sultry Climates	Sin Kang Yik
2	4	43	Where citizen science meets the urban environment: The Schools Weather and Air Quality (SWAQ) network	Melissa Hart
2	4	54	Revisiting the Seasonality of Surface Urban Heat Islands	Panagiotis Sismanidis
2	4	59	Characterizing atmospheric stability using Radon-222 for UHI studies: Central Poland case study	Scott D Chambers
2	4	64	Land Cover Impacts on Surface Urban Heat across Different Climates	Marzie Naserikia
2	4	86	Spatio-temporal characterization of Surface Urban Heat Island (SUHI) and Green Infrastructure (GI): A case study of Delhi, India	Atul Kumar
2	4	95	Do we need to apply maintenance to globe thermometers in outdoor use?	Kanta SUSAKI
2	4	104	Analyzing driving factors of the intensity and extent of surface urban heat island: a case study of major Chinese cities	Ran Wang
2	4	108	The synergy of urban-met observation and citizen science participations in revealing the 4-dimensional heat heterogeneity in urban environment	Jeffrey Man Hei Chang
2	4	116	Surface and canopy urban heat island magnitudes in Europe - Uncovering differences in the diurnal cycle and sensitivity towards urban classification	Leonie Krelaus
2	4	128	An open collection of 20 urban flux tower datasets	Mathew J Lipson
2	4	131	Multi-source micrometeorological data acquisition for the assessment of heat mitigation strategies in Novi Sad (Serbia)	Dragan Milosevic
2	4	136	Global Investigation of the Cooling Effects of Urban Parks Using Satellite-Derived Land Surface Temperature	Ilias Agathangelidis
2	4	149	Potential of satellite observations to detect and monitor urban aerosol signal over Paris urban area (France)	Marine Claeys
2	4	150	Analyzing the effects of urbanization on land surface characteristics on two cities utilizing Google Earth Engine	Sukanya Dasgupta

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2	5	169	Atmospheric Conditions in and around Urban Area during Pre-monsoon Season over Eastern India	Sasanka Talukdar
2	5	15	Pedestrian-level gust wind flow and comfort around building arrays – influencing assessment on the pocket park	Jiading ZHONG
2	5	29	Mitigation of Urban Thermal Environment by River	Hirofumi Sugawara
2	5	76	Parameterization of thermal buoyancy on the exchange velocity of urban canopy layer	Shuo-Jun Mei
2	5	100	A wind tunnel study of turbulence flows over real urban surface with statistical scale analysis	Fei Li
2	5	102	A comparison of turbulent flows over idealized urban and vegetation canopy	Ruiqi WANG
2	5	107	The relationship between Local Climate Zone (LCZ), surface temperature (Ts) and air temperature (Ta). A case study in Quito City	DIANA PAOLA MAIGUA
2	5	123	Effect of building shape on the wake characteristics after a high-rise building	Keyi Chen
2	5	124	A Comparison of Turbulent Flows over Real Urban Surfaces between Large-eddy Simulation and Wind Tunnel Experiments	Ziwei Mo
2	5	139	Resolving micro to mesoscale interactions between urban surface and a sea-breeze circulation using high resolution large-eddy simulations	Sasu Karttunen
2	5	140	A Comparison of Integrated Urban Flood Risk Management in Various Climatic Zones	Archita Saha
2	5	141	Chasing the plume – Investigating the urban boundary layer downwind of a city with transects of fixed and mobile profiling instruments	Daniel Fenner
2	5	142	Effect of radiation interaction and aerosol processes on ventilation and aerosol concentrations in a real urban neighborhood in Helsinki	Jani Strömberg
2	5	148	Parametrizing drag distribution over an urban canopy with variable building height	Keisuke Nakao
2	5	152	Blue space effects in a simplified urban neighbourhood under neutral stratification	Petros Ampatzidis
2	5	125	Exploring the potential of Piezoelectricity as clean energy alternative in built environments	Sitha MahaLakshmi P
2	5	130	An investigation into the effects of non-conventional bricks on indoor thermal environment of a building	Hardik Haresh Gajjar
2	5	143	Simulation of urban forms effect on localized urban heat island and its consequences on building energy demand in Morocco	Asia Lachir
2	5	145	An investigation into the effects of different types of building shading elements on indoor thermal environment	Hiten H Motiyani

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2	6	17	Turbulence analysis in representative urban modules in Mexico City as a form to UHI mitigation	Monica Ballinas
2	6	40	Impact of an enhanced green infrastructure on the urban heat island intensity	Stefano J Daminello
2	6	66	AN URBAN CLIMATE WALKING TOUR AS AN INSTRUCTIONAL TECHNIQUE FOR LINKING TOGETHER DIVERSE ASPECTS OF URBAN SUSTAINABILITY	Julie Fatcher
2	6	69	Temporal and Spatial Variation of Anthropogenic Heat Emissions in Colombo, Sri Lanka	Lewis P Blunn
2	6	73	Examining the Effect of the Configuration of Urban Design Elements on Outdoor Thermal Conditions in Urban Spaces, Case Study: Tehran	Zahra Khosravipoor
2	6	84	Landscape metrics in assessing how configuration of urban green spaces affect their cooling effect: a systematic review	Yilun Li
2	6	88	Pedestrians' comfort as a priority for urban design: a case study in Milan (IT)	Marika Tomasi
2	6	96	Urban morphometrics and socio-physical livability in Slum Rehabilitation Housing; a case of Mumbai, India	Subham Das
2	6	101	Climate Adaptation in the Street: a scaleable climate responsive shading system for outdoor thermal comfort	SINEAD NICHOLSON
2	6	117	Simulation of potential complex effect of urban greenery in urban canyon; case study in Prague-Dejvice	Jan Geletic
2	6	121	Multi-scale climate-sensitive planning framework to mitigate urban heat island effect: a case study in Singapore	Liqing Zhang
2	6	135	Impact of trees on microclimate in a row house development during summers in hot and dry climate: A case of Amravati, Maharashtra	Priyanka A Jaiswal
2	6	137	Subtropical Vienna - Designing Urban and Architectural Microclimates for a Collective Form of Climate Adaptation	Julian Raffetseder
2	6	138	Parametric Design Applications at the Building and District Scale: A Performance-Based Iterative Design Process in a Hyper-Arid Climate	Latifah A Almulaifi
2	6	144	Simulating pedestrian winds comfort in public space during a rapidly developed urban area. A case study of in Nanjing (1930s-2000s)	Shang Ziqi
2	6	4	The impact of the COVID-19 pandemic on air pollution: A global assessment using machine learning techniques	Kerry A Nice
2	6	8	Urban climate changes during the COVID-19 pandemic: Integration of urban-building-energy model with social big data	Yuya Takane
2	6	90	COVID-19 lockdown-related effects of traffic reductions on size-resolved particle number fluxes in Berlin	Agnes Straaten
2	6	166	The impact of COVID-19 confinement measures on the canopy urban heat island intensity of Ghent (Belgium)	Rafiq Hamdi

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3	7	113	Quantifying the urban carbon dioxide fluxes at high spatio-temporal resolution	Max Anjos
3	7	114	Modeling urban surface exchange of carbon dioxide in Beijing, China	Yingqi Zheng
3	7	146	A semi-empirical model for the effect of trees on the urban thermal environment	Taihan Chen
3	7	151	An assessment of Diurnal and seasonal variations of Surface Energy Fluxes in a hot tropical Humid City with SUEWS	Benjamin Obe
3	7	158	Effective vegetation models for urban climate simulation	Ronald Queck
3	7	159	Combining mesoscale and microscale modelling to get a complete chain of climatic models : a case study in Strasbourg city, France	Nathalia A Philipps
3	7	161	Implementation of high-resolution WRF-BEP+BEM modelling for Minsk, Belarus with different approaches to urban morphology representation: analysis of urban heat island and urban pollution island effects	Siarhei Barodka
3	7	162	Evaluation of wind flow over terrain for urban climate modelling of high-density neighborhoods	Tanya Talwar
3	7	34	Study on building energy estimation using UAV equipped with an infrared camera	Yukiko Yoshida
3	7	48	Combining High-Resolution Land Use Data With Crowdsourced Air Temperature for Microclimate Analyses	Negin Nazarian
3	7	49	Sentiment Analysis of Weather-Related Tweets from Cities within Hot Climates	Rachel Pek
3	7	51	Potential of Synthetizing Climatopes and Local Climate Zones for Urban Climatic Planning Recommendations: A Case Study in Toulouse, France	Shi Yin
3	7	61	A machine learning approach to study the relationship between urban morphology and urban heat island	Wan Hin Mok
3	7	80	Urban heat island observation from the fusion of connected vehicle and personal weather station measurements	Eva Marques
3	7	89	IoT-based microclimate sensing and analytics for urban street canyons in Singapore	Shanshan Tong
3	7	99	Using machine learning for fine resolution hourly thermal environment mapping	Guangzhao Chen
3	7	118	GLOBUS: GLObal Building heights for Urban Studies	Harsh Kamath
3	7	126	Improved high resolution city-descriptive input data for urban meteorological modelling	Mathew J Lipson
3	7	134	A two-tier sensor network for real-time monitoring and modelling of urban-scale weather in Freiburg, Germany	Marvin Plein

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3	8	175	Introducing Urban Digital Twins (UrbDT)	Dev Niyogi
3	8	12	Exploring the triadic relation of urban form, wind, and air quality at street level: A case of City of London, UK	Kiran A. Apsunde
3	8	47	An analysis of spatial-temporal variation in indoor air quality based on field measurements of an apartment	Tanya K Bedi
3	8	81	Quantification of road-traffic emission factors for ultrafine particles from multi-year particle number flux measurements using eddy covariance	Stephan Weber
3	8	110	LARG-EDDY SIMULATION OF THE POLLUTANT DISTRIBUTIONS IN DIFFERENT TRAFFIC SCENARIOS CASE STUDY: A PLANNED CITY BOULEVARD IN HELSINKI	Nahid Atashi
3	8	147	Space Measurement of CO2: A remote sensing and urban microclimate study of CO2 sources and sinks	Samson O Ogunfuyi
3	8	19	How does urbanization affect tropical cyclone rainfall- Inference from observations and convection-permitting model experiments	Chenxi Hu
3	8	33	Urban Growth and Climate Risk in the Mexico City Metropolitan Area	Nuria D Vargas
3	8	60	Evaluation of Urban-Scale Simulations of a Sydney Supercell Storm	Asiful Islam
3	8	75	Assessing hurricane wind fields to predict areas of wind damage to cities along the Gulf of Mexico	Miranda R Silano
3	8	77	Hectometric modelling of urban and atmosphere environment interactions during a heavy precipitation event over Paris	Arnaud Forster
3	8	93	Causal analysis of spatial patterns of urban heatwaves among U.S. cities	Xueli Yang
3	8	94	Characterization of sea breeze cooling in selected Australian cities	Yifei Zhou
3	8	119	Flood Risk Analysis in Coastal Urban Areas: A Case Study of Bangladesh	Syeda Nazifa Tasneem
3	8	120	The impact of heatwave on urban heat island explained by energy budget change	Jing Kong
3	8	122	Urban impacts on a severe weather case over the Metropolitan Area of São Paulo (MASP)	Mariana Picolo
3	8	174	Spatial variation of excess mortality during the heat wave of 2018 in Stockholm	Jorge H. Amorim
3	8	36	A Quantification of Classic But Unquantified Positive Feedback Effects in the Urban-building-energy-climate System	Yukihiro KIKEGAWA
3	8	56	A Predictive Microclimatic Analysis of Pedestrian Thermal Stress in a Densifying Urban Business District – An Eastern-Mediterranean Case Study	Inbal Gadish

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3	9	72	WRF-comfort: Multi-scale quantification of the spatial variability of pedestrian thermal exposure	E. Scott Krayenhoff
3	9	91	Urban micro-climate controls on intra-urban variations in vegetation growing season length and timing in a semi-arid city	Ben Crawford
3	9	13	LST and exoatmospheric albedo modifications assessment in Summer and Winter thermal periods: study case in Lisbon, using Landsat 8 dataset and LCZ	Márcia AN Matias
3	9	23	Bridging underpinning research capability and trans-disciplinary thinking for integrated urban service development in the UK	Claire Scannell
3	9	25	Urban climate services to manage heat risks in cities	Victoria Ramsey
3	9	38	Future climate projection of heat indices for Austrian major cities: developing Climate Services to improve climate resilience in urban areas	Maja Žuvela-Aloise
3	9	71	Lowering the temperature to increase heat equity: A multi-scale evaluation of nature-based solutions in Toronto, Ontario, Canada	Vidya Anderson
3	9	97	Different spaces for outdoor thermal comfort during summer in a coastal city : A comparative study	Hongchi Zhang
3	9	115	Investigating Human Mobility Patterns into Seven Southeast United States Cities and its Relationship to Climatic Vulnerability	Brandon Ryan
3	9	132	Regional-scale shifts in precipitation due to climate change in an urban and sub-urban area	Ahmad Rashid
3	9	153	Study of the future evolution of the urban climate of Paris by statistical-dynamical downscaling of the EURO-CORDEX ensemble	Benjamin Le Roy
3	9	154	Assessing Urban Climate in North-East cities of India through a Multi-dimensional Approach	Priyangshhi Biswas
3	9	163	A Framework to Optimise the Impact of Green Infrastructure in Improving Socio-Environmental Vulnerability: A case study of Greater Glasgow	Megi Zala
3	9	171	Using the Austin Heat Mapping for Active Learning and Community Resilience Partnerships	Trevor D Brooks
3	9	6	A Global, High-Resolution Dataset of Urban Extreme Heat Exposure	Cascade P Tuholske
3	9	11	Evolution of the surface urban heat island in the Bangkok Metropolitan Region from 2000 to 2020	Linlin Lu
3	9	106	Climate Risk Vulnerability Assessment in Indian Himalayas	Aditya Rahul
3	9	133	Are the existing climate change policies in India sufficient for climate resilient cities from a heat mitigation perspective?	Shreya Banerjee