

Programme



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Sunday, 19 July 2015

16:30 – 18:30 Pre-registration event at Hotel d'Assezat

Monday, 20 Ju	ıly 2015
08:30 - 18:00	Registration. Registration continues through the whole conference.
09:00 - 10:30	Opening of the conference
10:30 - 11:00	Coffee break
11:00 - 12:30 Caravelle Room	CCMA1: Cities inside climate models & downscaling methods Session Chair: Johannes Feddema, University of Victoria
	Towards understanding the hydro-climatic implications of urbanization in the GFDL global climate and earth system modeling framework Dan Li, Program of Atmospheric and Oceanic Sciences, Princeton University, Princeton, NJ 08544, USA;
	Changes of temperature and humidity in areas of city sprawl under climate change conditions Daniel Argueso, ARC Centre of Excellence for Climate System Science, University of New South Wales, Australia; Climate Change Research Centre, University of New South Wales, Australia
	Modelling the relative impact of land-use change and global climate change on the climate in cities Hendrik Wouters, KU Leuven, Belgium
	Assessment of three dynamical urban climate downscaling methods Rafiq Hamdi, Royal Meteorological Institute of Belgium, Belgium
	How many days are required to represent the urban climate statistics? Marita Boettcher, Meteorological Institute, CEN, University of Hamburg, Germany;
	The effect of future climate change on indoor thermal environment of a natural ventilated urban apartment in Taiwan Kuo-Tsang Huang, Dept. of Bioenvironmental Systems Engineering, National Taiwan University, Taiwan;
	Ruo-Isang nuang, Dept. of Dioenvironmental Systems Engineering, National Talwart Oniversity, Talwart,
11:00 - 12:30 Cassiopée Room	TUKUP1: Public policies and practices Session Chair: C. S. B. Grimmond, Univerisity of Reading
	It's Not All or Nothing: Partial retreat as a climate adaptive strategy for resilient coasts Judd Schechtman, New York University, United States of America
	Integration of urban climate issues in urban planning : reflections on which are the keys of success Julia Hidalgo, LISST/CNRS, France
	What motivates urban poor in Bangladesh to adapt with urban ecosystem services and disservices? Md Mustafa Saroar, Khulna University, Bangladesh, People's Republic of
	The urban heat island in Beirut and transfer of the urban climate knowledge to urban planners Noushig Chahe Kaloustian, Université Paris Est Marne La Vallee, Paris, France
	Adapting cities to climate Change : a systemic modelling approach Vincent Viguié, International Centre for Research on environment and Development
11:00 - 12:30 St-Exupéry Amphitheater	UCP1: UHI characteristics I : link with Boundary Layer Session Chair: Mikhail A. Lokoshchenko, Lomonosov Moscow State University, Faculty of Geography
	A Breath of Fresh Air in Urban Heat Island Studies Natalie Theeuwes, Wageningen University, Netherlands, The
	Observed Spatial Characteristics of Beijing Urban-Climate Impacts on Summer Robert Bornstein, Department of Meteorology and Climatology, San Jose State University, San Jose, CA, USA
	An investigation of the dynamic and thermodynamic impacts of urbanization via WRF-LES XiaoLiang Zhu, State Key Laboratory of Hydro-Science and Engineering, Department of Hydraulic Engineering, Tsinghua University, Beijing 100084, China
	Observation and Simulation on the Characteristics of Summer Urban Heat Island in Nanjing, China Chenggang Wang, Nanjing University of Infromation Science and Technology, China, People's Republic of

Urban heat island in the metropolitan area of São Paulo and the influence of warm and dry air masses during summer

Flávia Noronha Dutra Ribeiro, University of São Paulo, Brazil

11:00 - 12:30 Spot Room	UDC1: Impact of Urban forms on outdoor ventilation Session Chair: Tzu-Ping Lin, Institute of Economics, Academia Sinica	Monday
	Natural Ventilation Performance in a High Density Urban Area Based on CFD Numerical S Dalian Fei Guo, architecture and art school,dalian university of tech, China, People's Republic of	imulations in
	Anthropogenic heat contribution to air temperature increase at pedestrian height in Singa density Central Business District (CBD) Daniel Jun Chung Hii, National University of Singapore, Singapore	apore's high
	Urban wind design for Bonifacio's citadel Dominique Dias, Urbalterre, France	
	Air Quality in the City of Erzurum: Strategies for Climate Sensitive Urban Design Dogan Dursun, Ataturk University, Turkey	
	Preserving Overall Performance of Air Conditioners by Incorporation of Wind- Permeable Buildings Karl An, Division of Environment, The Hong Kong University of Science and Technology, Hong Kong S. A. I	
12:30 - 14:15	Lunch break	
12.30 - 14.15		
14:15 - 16:00 Caravelle Room	CCMA2: Climate modeling : methodologies for impacts studies Session Chair: Rafiq Hamdi, Royal Meteorological Institute of Belgium	
	Summer climate departure in mid-latitude cities: health impact, mitigation and adaptation Bénédicte Dousset, Hawai'i Institute of Geophysics and Planetology, University of Hawai'i at Manoa, United	
	Assessing climate change in cities using UrbClim Hans Hooyberghs, VITO, Belgium	
	Investigating the urban climate characteristics of two Hungarian cities with SURFEX/TEB model Gabriella Zsebeházi, Hungarian Meteorological Service, Hungary	land surface
	Near Future Weather Data for Building Energy Simulation in Summer/Winter Seasons in T by Dynamical Downscaling Method Yusuke ARIMA, Graduate School of Engineering, The University of Tokyo, Japan	okyo Developed
	Modelling the impact of climate change on heat load increase in Central European cities Anita Bokwa, Jagiellonian University, Krakow, Poland	
	URBAN TOURISM IN SOUTHERN EUROPE: assessing present and future climate condition Raquel Pinto Machete, Institute of Geography and Spatial Planning, University of Lisbon, Portugal	ons
14:15 - 16:00 Cassiopée Room	TUKUP2: Governance challenges in urban planning and adaptation Session Chair: Janet Fraser Barlow, University of Reading	
	The heat adapted city? A Constellation Analysis of urban governance and planning to tac risks in mid-latitude cities	kle heat stress
	Nicole Mahlkow, Freie Universität Berlin, Germany	
	Urban Planning and the Climate issues of Beirut and Hamburg: Comparison or approache decision making processes. Noushig Chahe Kaloustian, Université Paris Est Marne La Vallee, Paris, France, Lebanon (Lebanese Rep	-
	A review of studies on the relationship between urban morphology and urban climate tow planning and design in (sub)tropical regions Justin CK Ho, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)	vards better urban
	Reasons to adapt to urban heat (in the Netherlands) Lisette Klok, Amsterdam University of Applied Sciences, Netherlands, The	
	Capacity for Urban Adaptation to Climate Change: Case Study of Erzurum and Kayseri Defne Dursun, Middle East Technical University, Turkey	

14:15 - 16:00 St-Exupéry Amphitheater	UCP2: UHI Characteristics II : Vertical and norizontal structure Session Chair: Fei Chen, NCAR	мопоау
	About the relation between urban topsoil moisture and local air temperature Sarah Wiesner, Meteorological Institute, CEN, Universität Hamburg, Germany; Institute of Soil Science, CE Hamburg, Germany	N, Universität
	Investigating the impact of anthropogenic heat on urban climate using a top-down metho Ronny Petrik, University of Hamburg, Germany	dology
	Effects of Urban Form and Atmospheric Stability on Local Microclimate Patricia Drach, UFRJ, Brazil	
	Urban Heat Island of Arctic cities Pavel Konstantinov, Lomonosov Moscow State University, Faculty of Geography, Russian Federation	
	Vertical range of urban 'heat island' in Moscow Mikhail A. Lokoshchenko, Lomonosov Moscow State University, Faculty of Geography, Russian Federation	ิท
	Urban Heat Island in the Lyon metropolitan areas. Julita Diallo-Dudek, University of Lyon, France	
14:15 - 16:00 Spot Room	UDC2: Impact of Urban forms on comfort II : temperate and cold climate cities Session Chair: Erik Johansson, Lund University	
	The impact of urban geometry on the radiant environment in outdoor spaces Christina Chatzipoulka, Kent School of Architecture, University Of Kent, United Kingdom	
	Neighbourhood morphology and solar irradiance in relation to urban climate Nahid Mohajeri, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland	
	Climate-Conscious Development of an Urban Area Györgyi Baranka, Hungarian Meteorological Service, Hungary	
	Numerical analysis of heat environment in central Tokyo using tree-crown-resolving large considering three-dimensional radiation process Keigo Matsuda, Center for Earth Information Science and Technology, Japan Agency for Marine-Earth Scie Technology, Japan	-
	Sensitivity of Perceived Temperature on meteorological variables and urban morphology Robert Schoetter, CNRM-GAME, Météo France, Toulouse, France	parameters
	An evaluation of the effects of heat ray retro-reflective film on the outdoor thermal enviro radiant analysis method considering directional reflection Shinji Yoshida, University of Fukui, Japan	nment using a
	Creating Urban Cool Islands effects for summer season in Toulouse new area: urban mic adaptation Stéphane Ginestet, Institut National des Sciences Appliquées de Toulouse, France	roclimate
16:00 - 16:30	Coffee break	
10.00 - 10.00	Sonee break	
16:30 - 18:00 Caravelle Room	CCMA3: Climate Impact studies & adaptation strategies Session Chair: Matei Georgescu, Arizona State University	
	Characteristics of heat wave impacts for major cities in the US under current and future of Jason Ching, University of North Carolina at Chapel Hill, United States of America	limate conditions:
	Impact of urban form on sunlight availability for urban farming in Asian cities at different Abel Tablada, NUS, Singapore	latitudes
	Impacts of a future city master plan on thermal and wind environments in Vinh city, Vietn Satoru lizuka, Nagoya University, Japan	am
	Vulnerability to heat waves: impact of urban expansion scenarios on urban heat island an Paris (France) Aude Lemonsu, CNRS/Météo-France, France; ² CIRED, Ecole des Ponts - ParisTech	nd heat stress in

16:30 - 18:00 Cassiopée Room	Session Chair: Lisette Klok, Amsterdam University of Applied Sciences	MONUAy
	Urban Climate, Human behavior and Energy consumption : from LCZ mapping to simulation planning (the MapUCE project) Valéry Masson, Météo-France, France	and urban
	Developing design guidelines for climate-responsive green infrastructure Wiebke Klemm, Landscape Architecture Group, Wageningen University, the Netherlands	
	Enhancing adaptation to climate change in urban environments through brownfield or vacar Gina Cavan, Manchester Metropolitan University, United Kingdom	nt land
	How is urban climate taken into account in urban design? Focus on French eco labels of url Delphine Chouillou, LISST, Université Toulouse 2 le Mirail / CNRS, Toulouse, France	ban design
	The Assessment Report for Climate Change in Cities (ARC3 -2) Urban Planninng and Design Jeffrey Raven, New York Institute of Technology, United States of America	n
16:30 - 18:00 St-Exupéry Amphitheater	UCP3: UHI characteristics III : UHI micro-scale variability Session Chair: Baomin Wang, Sun Yat-sen University	
	Urban heat island study between different size of towns and cities	
	Chen-Yi Sun, National Chengchi University, Taiwan, Republic of China	
	A Simple Statistical Model for Predicting Fine Scale Spatial Temperature Variability in Urban Brian Lee Vant-Hull, City University of New York, United States of America	n Settings
	Mapping of micro-meteorological conditions using statistical approaches - The example of S Christine Ketterer, Chair of Meteorology and Climatology, Albert-Ludwigs-University Freiburg, Germany	Stuttgart
	Cross-analysis between variability of the urban climate and the landscape heterogeneity at a neighbourhood for a subgrid parametrization in TEB model Julien Le Bras, Météo France, France	the scale of a
	Multilevel Analysis of Spatiotemporal Regime of Air Temperature in Urban and Suburban La study: The Town of Olomouc, Czech Republic Miroslav VYSOUDIL, Palacky University, Fac. of Sciences, Czech Republic	indscape (Case
	The heterogeneity of urban thermal environment during summertime as observed by in situ sensed measurements Feng Chen, Sun Yat-sen University, China, People's Republic of	and remotely
16:30 - 18:00 Spot Room	UDC3: Impact of Urban forms on comfort I : tropical and arid climate cities Session Chair: Chao REN, The Chinese University of Hong Kong	
	Evaluation of the effect of densification of the built environment on outdoor thermal comfor humid Dar es Salaam, Tanzania Erik Johansson, Lund University, Sweden	t in warm-
	The role of urban design in enhancing the microclimate and thermal comfort in warm-humid Salaam, Tanzania Moohammed Wasim YAHIA, Lund University, Sweden	l Dar es
	AMONG WINDS, WATER BODIES AND URBAN ELEMENTS Léa Cristina Lucas de Souza, Federal University of São Carlos, Brazil, Brazil	
	Climate-Friendly Urban Design Process in Old Towns alongside the Persian Gulf, Case Stud Najmeh Motalaei, University of Applied Science, Tehran, Iran	ly: Bushehr
	Application of airborne LiDAR and thermal Infrared technologies for the assessment of hum biometeorological conditions in urban areas Tzu-Ping Lin, Department of Architecture, National Cheng Kung University, Tainan, Taiwan	nan
	Holistic Method on Performing Microclimate Analyses of an Urban Area in the Tropics Hii Daniel Jun Chung, National University of Singapore, Singapore	
18:00 - 19:30	Ice breaker	

Tuesday, 21 Ju	ıly 2015
8:30 - 9:30 St-Exupéry Amphitheater	PLENARY1: Plenary session I : Adaptation of Asian Cities to Climate Change
	Adaptation of Asian Cities to Climate Change Edward Yan-yung Ng, Chinese University of Hong Kong, Dept of Architecture, Hong Kong, China
9:30 - 10:30 Caravelle Room	CCMA4: UHI mitigation strategies I : urban expansion & climate change links Session Chair: Vincent Viguié, Ecole des Ponts ParisTech
	Bamboo Structures: A perspective for Climate Change Mitigation Chaaruchandra Korde, GreenBam Solutions, New Delhi; Airef Engineers Pvt. Ltd, New Delhi, India
	The Impact of future urbanization on summer climate of Israel SHAI KAPLAN, Ben Gurion University of the Negev, Israel
	Urban Climate Adaptation Impacts: A multi-scale assessment to examine modeling robustness Matei Georgescu, Arizona State University, United States of America
9:30 - 10:30 Cassiopée Room	GD1: Surface UHI from satellite Session Chair: Bénédicte Dousset, University of Hawai'i at Manoa
	Cities as urban clusters: an empirical and large sample study of urban heat island intensity Bin Zhou, Potsdam Institute for Climate Impact Research (PIK), Germany
	Directional analyses of UHI intensity over Delhi with respect to variations in vegetation cover in the National Capital Region of India Krishan Kumar, Jawaharlal Nehru University, New Delhi, India, India
	The Urban 'Oasis': High Resolution Landsat 5TM and ASTER Thermal Imagery Shows the Influence of Water Usage on City-Wide Temperatures in Dubbo, Australia Nigel James Tapper, School of Earth, Atmosphere and Environment, Monash University, Australia; CRC for Water Sensitive Cities, Australia
	Analysis of the impact of different temporal aggregation techniques of land surface temperature on SUHI indicators and the relationship of surface temperature with population density and night lighting. Lech Gawuc, Warsaw University of Technology, Poland
9:30 - 10:30 St-Exupéry Amphitheater	UCP4: Observations of Surface Energy and Water Balances Session Chair: Krzysztof Fortuniak, University o Lodz
	The daytime energy budget of small parks in Mexico City and Lisbon, Portugal, as derived by tree sap-flow measurements and transpiration modeling Victor L Barradas, Instituto de Ecología, UNAM
	Multi-year energy balance and carbon dioxide fluxes over a residential neighborhood in a tropical city Matthias Roth, National University of Singapore, Singapore
	Micrometeorological impacts of an ephemeral desert city: The Burning Man experiment Andrew J. Oliphant, San Francisco State University, United States of America
9:30 - 10:30 Spot Room	UCP7: Air Quality in Urban Boundary Layer : processes Session Chair: Nadège Blond, CNRS
	A numerical study of pollutant entrainment in a street network Omduth Coceal, University of Reading, United Kingdom; National Centre for Atmospheric Science, Department of Meteorology, University of Reading, UK
	Impact of heat waves (HWs) on air pollution (case study for HWs episode in June-August 2010 in the Kiev city (Ukraine) Sergiy Snizhko, Kiev Shevchenko University, Ukraine
	A WRF-Chem modelling study to analyse the effect of urban greening and white roofs on urban air quality. Joachim Fallmann, Karlsruhe Institute of Technology, Germany
	CFD MODELING OF REACTIVE POLLUTANTS IN AN URBAN STREET CANYON USING DIFFERENT CHEMICAL MECHANISMS Beatriz Sanchez, Air Pollution Division, Environmental Department, CIEMAT, Madrid, Spain

11:00 - 12:30 Caravelle Room	Session Chair: Nigel James Tapper, Monash University	Tuesday
	An urban model for analysing thermal effects dependent on spatial parameters Hungchu Chen, Urban Science and Systems, Department of the Built Environment, Eindhoven University of Netherlands	of Technology, The
	Isfahan's Urban Design Sustainability with Climate During Safavid Period. Mehdi Haghighat Bin, Tarbiat Modares University, Iran, Islamic Republic of	
	Climatic aspects in the first city plan of Tel-Aviv (1925) Yaron Jorgen Balslev, Department of Geography and Human Environment and Porter School of Environm Aviv University, Israel	ental Studies, Tel-
	Urban heat islands in the future Hanoi City: Impacts on indoor thermal comfort and coolir residential buildings Andhang Rakhmat Trihamdani, Graduate School for International Development and Cooperation, Hiroshir	-
	Thermal impact of blue infrastructure: Casestudy Cheonggyecheon, Seoul (Korea) Conrad Heinz Philipp, University of South Australia, Australia	·····,,,,,,
	Simulating the extent of the moderating influence of green space distribution on future un Michael Roth, Klimaat Consulting & Innovation Inc.	rban climates
11:00 - 12:30 Cassionée Room	GD2: Local climate zones I : WUDAPT Session Chair: Rohinton Emmanuel, Glasgow Caledonian University	
	An introduction to the WUDAPT project Gerald Mills, UCD, Ireland	
	CENSUS of Cities: LCZ Classification of Cities (Level 0): Workflow and Initial Results from Benjamin Bechtel, University of Hamburg, Germany	n Various Cities
	Generating WUDAPT's Specific Scale-dependent Urban Modeling and Activity Parameters Level 1 and Level 2 Data Linda See, IIASA, Austria	s: Collection of
	Demonstrating the Added Value of WUDAPT for Urban Modelling Johan Feddema, Department of geography, University of Victoria, Victoria, CA	
	The Portal Component, Strategic Perspectives and Review of Tactical plans for Full Imple WUDAPT Jason K Ching, UNC, Institute for the Environment, United States of America	ementation of
	Comparison and integration of LCZ classification methods based remote sensing and GIS Tamás Gál, University of Szeged, Hungary	8
11:00 - 12:30 St-Exupéry Amphitheater	UCP5: Observations of Greenhouse gases fluxes Session Chair: Moon-Soo Park, Weather Information Service Engine	
	Eddy covariance flux towers as urban monitoring systems of greenhouse gases: the Mex experience Erik Velasco, Singapore-MIT Alliance for Research and Technology, Singapore	ico City
	Carbon dioxide flux measurement in the central area of Tokyo Tatsuki Hirano, Department of Earth and Ocean Sciences, National Defense Academy of Japan	
	Carbon dioxide fluxes of turfgrass species in urban turfs in Hong Kong Ling KONG, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)	
	Net turbulent fluxes of methane and carbon dioxide in the city of Łódź, Poland – comparis seasonal variability Wlodzimierz Pawlak, Department of Meteorology and Climatology, University of Lodz, Poland	son of diurnal and
	Seasonal and inter-annual variation of CO2 flux and concentration in Basel Michael Schmutz, University of Basel, Switzerland	
	Quantification of the surface-atmosphere exchange of energy and carbon dioxide of an ex green roof by eddy covariance measurements Jannik Heusinger, TU Braunschweig, Germany	xtensive urban

11:00 - 12:30 Spot Room	UCP7 (cont): Air Quality in Urban Boundary Layer : processes Session Chair: Xuemei Wang, Sun Yat-sen University	Tuesday
	Turbulence and pollutant transport in urban roughness sublayer under stable stratificatio simulation	n: a large-eddy
	Xian-Xiang Li, Singapore-MIT Alliance for Research and Technology, Singapore	
	The ClearfLo project – Are sea breezes a mechanism to change the air in London? Sylvia I Bohnenstengel, Met Office@Reading, Reading, UK; Department of Meteorology, University of Rea	ding
	Simulations of Pollutant Dispersal over Nairobi City, Kenya George OTIENO, IGAD Climate Prediction and Applications Centre	
	On the Transport of Chemically Reactive Pollutants over Urban Roughness in the Atmosp Layer Zhangquan WU, The University of Hong Kong, Hong Kong S.A.R. (China)	heric Boundary
	MICROSCALE MODELLING OF EFFECTS OF REALISTIC SURFACE HEAT FLUXES ON PO DISTRIBUTION WITHIN A SIMPLIFIED URBAN CONFIGURATION Jose Luis Santiago, Air Pollution Division, Environmental Department, CIEMAT, Madrid, Spain	LLUTANT
12:30 - 14:15	Lunch break	
14:15 - 15:00 Cassiopée Room	GD3: Local climate zones II : methodologies and maps Session Chair: Gerald Mills, UCD	
	Applying "Local Climate Zone (LCZ)" into a High-density High-rise Cities - A Case Study in Chao REN, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)	n Hong Kong
	Exploiting Earth Observation data products for mapping Local Climate Zones Zina Mitraka, Foundation for Research and Technology – Hellas, Greece	
	Building Local Climate Zones basing on socio-economical and topographic vectorial data Christine PLUMEJEAUD-PERREAU, UMR 7266 LIENSs, France	bases
14:15 - 15:00 St-Exupéry Amphitheater	UCP6: Radiation processes Session Chair: James Voogt, Western University	
	Urban-rural differences in longwave radiation – Łódź case study Krzysztof Fortuniak, University o Lodz, Poland	
	Spatial variability, horizontal anisotropy and diurnal evolution of measured infra-red fluxe neighborhood of Toulouse Bertrand Carissimo, CEREA, France	s in a city
	Investigation of the effect of different sealed surfaces on local climate and thermal stress Erich Mursch-Radlgruber, University of Natural Resources and Life Sciences, Austria	
14:15 - 15:00 Caravelle Room	UCP8: Influence of mesoscale flows Session Chair: Hiroyuki Kusaka, University of Tsukuba	
	Alpine pumping and urban climate in Munich, Germany Meinolf Kossmann, Deutscher Wetterdienst, Offenbach am Main, Germany	
	High frequency recovering technique of turbulent inflow for LES of urban wind Hidenori Kawai, Tokyo Institute of technology, Japan	
	OBSERVED AND MODELED SUMMER THERMAL GRADIENTS AND SEA-BREEZE IN SOU CALIFORNIA	
	Jorge E. Gonzalez, Department of Mechanical Engineering, City College of New York, CUNY, New York, New Yor	ew York, USA
14:15 - 15:00 Spot Room	UDC4: Impact of Urban forms on comfort III : theoretical studies Session Chair: Evyatar Erell, Ben-Gurion University of the Negev	
	Effects of Different Floor Covering Materials on Thermal Comfort in Landscape Design Sta Mehmet Akif Irmak, Ataturk University, Turkey	udies
	Impact of Urban Morphology on Average Urban Albedo Xinyan Yang, the University of Hong Kong, Hong Kong S.A.R. (China)	

Analysis of human thermal conditions in winter for different urban structures in Erzurum Hasan YILMAZ, Ataturk University, Turkey

15:00 16:00	POSTER SESSION (1-13)	
16:00 - 16:30	Poster session & Coffee break	
16:30 - 18:15 Spot Room	BPH1: Modeling of outdoor microclimate & comfort Session Chair: David Pearlmutter, Ben-Gurion University of the Negev	Tuesday
	The role of trees in urban thermal comfort and SkyView Factor Sevgi Yilmaz, Ataturk University, Turkey	
	Developments and applications of thermal indices in urban structures by RayMan and Sky Andreas Matzarakis, Albert-Ludwigs-University Freiburg, Germany	yHelios model
	Towards a city-wide analysis of mean radiant temperature at high spatial resolution – An e Berlin, Germany Britta Jänicke, Technische Universität Berlin, Department of Ecology, Institute of Climatology, Germany	example from
	Heat-related health impacts associated with the urban heat island and climate change in t Midlands, UK. Clare Helen Heaviside, University of Birmingham; Public Health England	he West
	A contribution to the summertime heat improvement in a marathon course by application airflow simulation Yasunobu Ashie, National Institute for Land and Infrastructure Management, Japan	of radiate and
	A Multiscaler Thermal Analysis of Urban Playgrounds Jennifer Vanos, Texas Tech University, United States of America	
16:30 - 18:15 Cassiopée Room	GD4: Local climate zones III : Inter & Infra-LCZ temperature variability Session Chair: Iain Douglas Stewart, University of Toronto	
	Urban Heat Island Study using Local Climate Zones Classification: Nagpur City, India Rajashree Shashikant Kotharkar, Visvesvaraya National Institute of Technology, Nagpur, Maharashtra, Ind	dia
	Relationship between land use and microclimate based on mobile transect measurements Kathrin Häb, Computer Graphics and HCI Group, University of Kaiserslautern, Germany	5
	Estimation of spatial air temperature distribution at sub-mesoclimatic scale using the Loc scheme and mobile measurements François Leconte, Territorial Division for the Eastern Regions, Cerema, Nancy (France); French Environme Management Agency, Angers (France); LERMAB, Lorraine University, Nancy (France)	
	Determining the optimal size of local climate zones for spatial mapping in high-density cit Kevin Ka-Lun Lau, School of Architecture, The Chinese University of Hong Kong, Hong Kong	ies
	A "Local Climate Zone" based approach to urban planning in Colombo, Sri Lanka Narein Perera, University of Moratuwa, Sri Lanka	
	Evaluating the urban climate using geo-database – GEOCLIM TOOL Marjorie Musy, Institut de Recherche en Sciences et Techniques de la Ville - FR CNRS 2488, France; Cent méthodologique d'architecture - UMR CNRS 1563, France	re de recherche
16:30 - 18:15 St-Exupéry Amphitheater	NOMTM1: Urban Canopy parameterizations I : Urban vegetation Session Chair: Stephane Belair, Environment Canada	
	A multi-layer urban canopy model for neighbourhoods with trees E. Scott Krayenhoff, University of British Columbia, Canada	
	A NEW PARAMETERIZATION FOR SURFACE HEAT FLUXES IN DENSE URBAN ENVIRON Jorge Gonzalez, City College of New York, United States of America	MENTS
	The influence of tree crowns on urban thermal effective anisotropy James Voogt, Western University, Canada	

VTUF: An urban micro-climate model to assess temperature moderation from increased vegetation and water in urban canyons

Kerry Nice, Monash University, Australia; CRC for Water Sensitive Cities, Australia

Modeling of Urban Vegetation as a Thermal Regulator and Management of Associated Water Resources for Neighbourhood to City-scale Applications

Emilie Redon, Universite de Toulouse, UPS, Meteo France, CNRM GAME, France

Modelling the impact of green infrastructures on local microclimate within an idealized homogeneous urban canopy

Isabelle Calmet, LUNAM, CNRS, LHEEA UMR CNRS 6598, Nantes, France; LUNAM, Ecole Centrale de Nantes, LHEEA UMR CNRS 6598, Nantes, France

Tuesday

Modelling Radiative Exchange in a Vegetated Urban Street Canyon Model

Duick T. Young, Department of Meteorology, University of Reading, United Kingdom;

UCP9: Impact of cities on precipitations 16:30 - 18:15 Session Chair: Robert ("Bob") D. Bornstein, San Jose State University **Caravelle Room**

The effect of urban environments on storm evolution through a radar-based climatology of the central **United States**

Darrel Kingfield, Cooperative Institute for Mesoscale Meteorological Studies, University of Oklahoma, United States of America; NOAA/National Severe Storms Laboratory, United States of America; Dept. of Geography and Environmental Sustainability, University of Oklahoma, United States of America

Impact of Urbanization on Local Circulation and Precipitation over the Leeward Mountain Hiroyuki Kusaka, University of Tsukuba, Japan

Impact of urbanization on the Beijing Super-Storm of 21 July 2012 under current and future climatic conditions

Fei Chen, NCAR, United States of America

Numerical simulation of urban influence on summertime precipitation in Tokyo: How does urban temperature rise affect precipitation?

Naoko Seino, Meteorological Research Institute, Japan

Modeling of the 26 August 2011 extreme precipitation event over Tokyo with Canada's subkm-scale Global Environmental Multiscale (GEM) model Stephane Belair, Environment Canada, Canada

Cities & Storms: How Land Use, Settlement Patterns, and the Shapes of Cities Influence Severe Weather Geoffrey M. Henebry, South Dakota State University, United States of America

Urban Impacts on Regional Rainfall Climatology

Dev Niyogi, Purdue University, United States of America

Wednesday, 22	2 July 2015
8:30 - 9:30 St-Exupéry Amphitheater	Plenary session II: Influence of cities on thunderstorms, clouds, and precipitation
	Influence of cities on thunderstorms, clouds, and precipitation Robert {"Bob"} D. Bornstein, San Jose State University, United States of America
9:30 - 10:30 Spot Room	BPH2: Indoor comfort and link with outdoor conditions Session Chair: Andreas Matzarakis, Albert-Ludwigs-University Freiburg
	Indoor-outdoor environmental coupling and exposure risk to extreme heat and poor air quality during heat waves David J Sailor, Portland State University, United States of America
	Effect of urban pollution on indoor air quality in energy-efficient buildings in the UK Zhiwen Luo, University of Reading, United Kingdom
	INFLUENCE OF PHYSICAL PROPERTIES OF VERTICAL WALL SURFACES ON HUMAN THERMAL SENSATION BASED ON FIELD MEASUREMENTS AND MICROCLIMATE SIMULATION Kiyoshi Sasak, Shimizu Corporation, Japan
9:30 - 10:30 Caravelle Room	NOMTM2: Statistical models Session Chair: Patrice G. Mestayer, CNRS
	Wind velocity profile observations for roughness parameterization of real urban surfaces Jongyeon Lim, the University of Tokyo, Japan
	Calculation method for outdoor air temperature of wooded architectural complex Jie Wu, Guangxi University, China, People's Republic of; South China University of Technology, China, People's Republic of
	An intra-urban nocturnal cooling rate model Shiho Onomura, University of Gothenburg, Sweden
	An empirical approach to estimate the biogenic components of CO2 flux over different ecosystems Veronica Bellucco, University of Sassari, Italy
9:30 - 10:30 St-Exupéry Amphitheater	UCP10: Influence of urban vegetation I : urban trees Session Chair: Oded Potchter, Tel Aiv University
	Field Observation on Thermal Environment of an Urban Street with Roadside Trees in a Tropical Climate Hai Jian Toh, Universiti Teknologi Malaysia, Malaysia
	Effects of Desert Tree Shade and Ground Cover Surface Cover on Human Comfort in an Arid City Chris Martin, Arizona State University, United States of America
	Incorporating Resolved Vegetation in City-Scale Simulations of Urban Micrometeorology and Its Effect on the Energy Balance Brian N. Bailey, University of Utah
9:30 - 10:30 Cassiopée Room	UCP12: Flows & dispersion I : pollutant dispersion in urban canopy Session Chair: Alberto Martilli, CIEMAT
	Pollutant Exchange and Breathability in Urban Street Canyons Negin Nazarian, University of California, San Diego, United States of America;
	Characteristics of scalar dispersion from a continuous area source over a cubical array Naoki Ikegaya, Kyushu University, Japan
	On the exchange velocity in street canyons with tree planting SILVANA DI SABATINO, Department of Physics and Astronomy (DIFA) - ALMA MATER STUDIORUM - University of Bologna (IT); RESEAUX S.r.I Lecce (IT)
10:30 - 11:00	Coffee break

11:00 - 12:30 Spot Room	BPH3: Observation/surveys of outdoor comfort Session Chair: Ademola Akinbobola, Federal University of Technology, Akure	Wednesday
	Thermal comfort conditions of urban spaces in a hot-humid climate of Chiangmai city, The Manat Srivanit, Faculty of Architecture and Planning, Thammasat University, Thailand	nailand
	Visitor perception of thermal comfort in two contrasting public landscape gardens during events Cho Kwong Charlie Lam, Monash University, Australia) extreme heat
	Impact of urban morphology on microclimatic conditions and outdoor thermal comfort – residential neighbourhood of Chennai, India. LILLY ROSE AMIRTHAM, SATHYABAMA UNIVERSITY, India	a study in mixed
	Outdoor thermal comfort under photovoltaic canopies – a seasonal field study at Arizona Ariane Middel, Arizona State University, United States of America	I State University
11:00 - 12:30 Caravelle Room	TUKUP4: Weather forecasting for city actors Session Chair: Shiguang Miao , Institute of Urban Meteorology, China Meteorological Administration, Beijing, China	
	From Urban Meteorology, Climate and Environment Research to Urban Integrated Service Alexander Baklanov, World Meteorological Organization (WMO), Switzerland	es
	Numerical Weather Prediction System dedicated to Urban Comfort and Safety during the American Games in Toronto	
	Stéphane Bélair, Recherche en Prevision Numérique, Meteorological Research Division, Environment Can	ada, Canada
	Urban Climate Services in China: Current capabilities and future needs C. S. B. Grimmond, Univerisit of Reading, United Kingdom; Shanghai Institute of Meteorolgical Science	
	Climate information application for improved planning and management of cities Chaeyeon Yi, Weather Information Service Engine project of KMA, Korea, Republic of (South Korea);	
	Summer in the city - High Resolution Modelling and Validation of Urban Weather for Ams Reinder Ronda, Wageningen University, Netherlands, The	terdam
11:00 - 12:30 St-Exupéry Amphitheater	UCP10 (cont): Influence of urban vegetation I : urban trees Session Chair: Fred Meier, Technische Universität Berlin	
	Weighing whole tree transpiration rate of urban trees and analysis of trees morpho-physic Tomoki Kiyono, Tokyo Institute of Technology, Japan	ological effects
	Transpiration of urban trees and its impact on nocturnal cooling in Gothenburg, Sweden Janina Konarska, University of Gothenburg, Sweden	
	Observed and modelled transpiration cooling from urban trees in Mainz, Germany Jenny Lindén, Johannes-Gutenberg University, Department of Geography, Mainz, German	
	Numerical Evaluation of Heat Budget in Tree Crown Considering the Detailed Structure Shinichi Kinoshita, Osaka Prefecture University, Japan	
	Microclimate regulation potential of different tree species: transmissivity measurements application in small-scale radiation modeling in Szeged, Hungary Ágnes Gulyás, University of Szeged, Hungary	and their
	Long term impact of climate on tree-growth patterns in Paris street trees and its conseque cooling potential: A dendroclimatic approach Ambre DAVID, iEES-Paris, Paris, France	ences on tree
11:00 - 12:30 Cassiopée Room	UCP13: Flows & dispersion II : effects of atmospheric stability Session Chair: Toshiaki Ichinose, National Institute for Environmental Studies / Nagoya University	
	Parametric studies of urban morphologies of high density cities and their air ventilation p under neutral and unstable atmospheric conditions using advanced large-eddy simulation Edward Ng, Chinese University of Hong Kong, Hong Kong S.A.R. (China)	
	Analysis of spacing of streaky structures within surface layer above real urban Ayako YAGI, Japan	
	Variations in the power-law index with stability and height for wind profiles in the urban k Ryozo Ooka, The University of Tokyo, Japan	oundary layer

Study of Stably Stratified Flows and Ventilation over Idealized Street Canyons using a Single-Layer Hydraulics Model

Chun-Ho Liu, The University of Hong Kong, Hong Kong S.A.R. (China)

LES analysis on atmospheric dispersion in urban area under various thermal conditions Yuto Sakuma, Graduate Student, Tokyo Institute of Technology, Japan

The urban heat island circulation with idealized building clusters by up-scaling CFD model: from buildings scale to city scale

Xiaoxue Wang, the University of Hong Kong, Hong Kong S.A.R. (China)

12:30 - 14:15 Lunch break

14:15 - 16:00 Spot Room	BPH4: Health Session Chair: LILLY ROSE AMIRTHAM, SATHYABAMA UNIVERSITY	Wednesday
	Evaluation of building-scale heat-stress analysis system (BioCAS) based on mortality ob Seoul	servation in
	Kyu Rang KIM, National Institute of Meteorological Research, Korea, Republic of (South Korea)	

Estimation of DALY loss due to heat stroke and sleep disturbance caused by air temperature rise in Tokyo, Japan

Tomohiko Ihara, The University of Tokyo, Japan

Inhalation cancer risk assessment in Krasnoyarsk city Olga Taseiko, Siberian State Aerospace University, Russian Federation

Changing weather factors implication on the prevalence of malaria in Ado-Ekiti, South west, Nigeria. Ademola Akinbobola, Federal University of Technology, Akure, Nigeria

A Field Assessment on Natural Ventilation and Thermal Comfort of Historical District: A case of the Wugoushui Settlement in Taiwan

Yu chieh Chu, National Cheng kung University, Taiwan, Republic of China

Neonates in Ahmedabad, India during the 2010 heat wave: a climate change adaptation study Perry Sheffield, Icahn School of Medicine at Mount Sinai, New York, United States of America

14:15 - 16:00 GD5: Urban databases and link with models Caravelle Room Session Chair: Jason K Ching, UNC

ESTIMATING ANTHROPOGENIC HEAT RELEASE FROM MEGACITIES

lain Douglas Stewart, University of Toronto, Canada

Development of fine-scale urban canopy parameters in Guangzhou city and its application in the WRF-Urban model

Xuemei Wang, Sun Yat-sen University, China, People's Republic of

GENIUS, a methodology to integer building scale data into urban microclimate and energy consumption modelling

Nathalie Tornay, LRA - Laboratoire Recherche en Architecture, France

Comparison of modelled thermal comfort during a heatwave in Melbourne, Australia Stephanie Jeanne Jacobs, Monash University, Australia; CRC for Water Sensitive Cities

H2GIS a spatial database to feed urban climate issues Erwan Bocher, Atelier SIG, IRSTV FR CNRS 2488, France

Mapping high-resolution urban morphology for urban heat island studies and weather forecasting at intraurban scale

J J Attema, Netherlands eScience Center, The; Wageningen University, Netherlands, The

Modeling the impact of future development pathways in Dublin on the urban energy and water balance Paul John Alexander, Irish Climate Analysis & Research Units, Maynooth University, Ireland

14:15 - 16:00 St-Exupéry Amphitheater	UCP11: Influence of urban vegetation II : parks & green roofs Session Chair: Tsuyoshi Honjo, Chiba University	Wednesday
	The climatic and bio-climatic impact of a small central city park on the surrounding urban during extreme heat events Asieh Motazedian, School of Earth Environment and Atmosphere, Monash University, Australia	n environment
	Influence of urban vegetation. Charles REVAUD, med ingenierie, France	
	Temporal variations of transpiration and latent heat fluxes from isolated linden crowns ar at Strasbourg, France Jérôme NGAO, UMR 547 PIAF, INRA - U. Blaise Pascal, Clermont-Ferrand, France	nd lawns in a park
	Thermal effects of Woody Green Areas in Urban Landscapes in Campinas City, Brazil Lucila Chebel Labaki, UNICAMP, Brazil	
	Leaf area measurements of urban woodlands, parks and trees in Gothenburg, Sweden Jenny Klingberg, University of Gothenburg, Sweden	
	Employing Terrestrial LiDAR to detail Tree Canopy Structure and Shade for the Cooling E Fanhua KONG, Nanjing University, China, China, People's Republic of	ffect Analysis
14:15 - 16:00 Cassiopée Room	UCP14: Flows & dispersion III : turbulent and dispersive fluxes in urban canopy Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong	
14:15 - 16:00 Cassiopée Room	Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions	er wall surface
14:15 - 16:00 Cassiopée Room	Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under	er wall surface
14:15 - 16:00 Cassiopée Room	Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tr dissipation of TKE over and within a realistic urban canopy	ansport and
14:15 - 16:00 Cassiopée Room	Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tr	ansport and
14:15 - 16:00 Cassiopée Room	 Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tradissipation of TKE over and within a realistic urban canopy Marco Giometto, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédéra Lausanne, Switzerland Experimental and numerical studies of flow adjustment and drag forces through idealized with different urban parameters 	ransport and le de Lausanne,
14:15 - 16:00 Cassiopée Room	Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tr dissipation of TKE over and within a realistic urban canopy Marco Giometto, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédéra Lausanne, Switzerland Experimental and numerical studies of flow adjustment and drag forces through idealized	ransport and le de Lausanne,
14:15 - 16:00 Cassiopée Room	 Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tradissipation of TKE over and within a realistic urban canopy Marco Giometto, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédéra Lausanne, Switzerland Experimental and numerical studies of flow adjustment and drag forces through idealized with different urban parameters 	ransport and le de Lausanne, d urban models
14:15 - 16:00 Cassiopée Room	 Session Chair: Edward Yan Yung Ng, Chinese University of Hong Kong Wind tunnel experiment on the Influence of approaching wind direction on flow field under heating and low wind velocity conditions Ye Lin, National Institute for Environmental Studies, Japan, Japan Large-eddy simulations to characterize the role of turbulent and dispersive production, tradissipation of TKE over and within a realistic urban canopy Marco Giometto, School of Architecture, Civil and Environmental Engineering, École Polytechnique Fédéra Lausanne, Switzerland Experimental and numerical studies of flow adjustment and drag forces through idealized with different urban parameters Jian Hang, Sun Yat-Sen University, P.R. China The interaction between roughness turbulence generated by block arrays and wake around the studies of the studi	ransport and le de Lausanne, d urban models nd large obstacle

Thursday, 23	July 2015
8:30 - 9:30 St-Exupéry Amphitheater	Plenary session III: New measurement networks for cities
	Urban Meteorological Networks: The urban climatologists panacea? Lee Chapman, University of Birmingham, United Kingdom;
9:30 - 10:30 Cassiopée Room	CCMA6: Urban air pollution mitigation strategies Session Chair: SILVANA DI SABATINO, University of Bologna
	A simple technique for improved particle filtration efficiency of vegetation barriers Tobi Eniolu Morakinyo, School of Energy and Environment, City University of Hong Kong, Hong Kong S.A.R. (China)
	Capability of urban woody plants to reduce particulate matter content in Tehran megapolis Ramin Erfanian Salim, Green Space organization, Tehran Municipality, Iran, Islamic Republic of; Faculty of Agriculture, Ferdowsi University of Mashhad, Iran, Islamic Republic of
	Impacts of urban spatial structure on air quality: an integrated modeling approach Vincent Viguié, Ecole des Ponts ParisTech, France ; CIRED, Campus du Jardin Tropical, 45 bis, avenue de la Belle Gabrielle, 94736 Nogent-sur-Marne Cedex
9:30 - 10:30 St-Exupéry Amphitheater	GD6: Urban climatology studies I : temperate and cold climate cities Session Chair: Lee Chapman, University of Birmingham
	60 year variability in meteorological and environmental characteristics of the atmosphere in Moscow megalopolis Natalia Chubarova, Faculty of Geography of Moscow State University Russian Federation
	The influence of wind advection on an urban heat island using the HiTemp network of sensors Richard Bassett, University of Birmingham, United Kingdom
	Urban heat island and inertial effects : analyse from field data to spatial analysis Jérémy Bernard, L'UNAM, ENSA Nantes, CERMA/IRSTV , ADEME, France
9:30 - 10:30 Spot Room	ID1: Environmental scholarship and collaborations Session Chair: Linda See, IIASA
	Exploring the changing geography of Urban Climatology: a spatial analysis of scientific production by using IAUC bibliographic data (1999-2012) Denis Eckert, LISST/CNRS/University of Toulouse/EHESS, France
	Scientific practices within the urban climate research field: « Drastic interdisciplinary » between social and natural sciences Géraldine Molina, IRSTV (FR CNRS 2488 – École Centrale de Nantes) - CERMA (ENSAN – UMR CNRS 1563)
9:30 - 10:30 Caravelle Room	NOMTM3: Computational Fluid Dynamics models Session Chair: Manabu Kanda, Tokyo Institute of Technology
	Thermal stratification and vegetation effects on the urban microclimate – a CFD case study Bharathi Boppana, Institute of High Performance Computing, Singapore;
	High resolution numerical study of wind, thermal effects and pollution dispersion in urban neighborhoods in Toulouse and Marseille ZHENLAN GAO, MFEE, R&D, EDF; CEREA, Ecole des Ponts ParisTech
	Numerical study of the influence of albedo on the microclimate of Bergpolder Zuid, Rotterdam Yasin Toparlar, Building Physics and Services, Eindhoven University of Technology, Eindhoven, the Netherlands; Environmental Modeling, Flemish Institute for Technological Research, Mol, Belgium
	Advanced numerical analysis on sensible heat flux from building external surfaces to the surrounding atmosphere using a heat balance simulation and CFD Kan CHEN, Tokyo Institute of Technology, Japan
10:30 - 11:00	Coffee break

11:00 - 12:30 Spot Room	BPH5: Human perception and new indicators Session Chair: Yasunobu Ashie, National Institute for Land and Infrastructure Management	Thursday
	Thermal comfort comparison and evaluation in different climates Lutz Katzschner, UKASS	
	How to transform the standing man from a box to a cylinder – a modified methodology to radiant temperature in models and field studies Björn Holmer, University of Gothenburg, Sweden, Sweden	calculate mean
	Watts in a comfort index: Evaluating pedestrian energy exchange and thermal stress in u environments David Pearlmutter, Ben-Gurion University of the Negev, Israel	rban
	SHORT-TERM ACCLIMATIZATION EFFECTS IN AN OUTDOOR COMFORT STUDY Eduardo Kruger, UTFPR, Brazil, Germany	
	Physiological Response of Human Body and Thermal Sensation for Irradiation and Exerc Changes Atsumasa Yoshida, Osaka Prefecture University, Japan	ise Load
	The prediction of outdoor human thermal states in non-uniform thermal loads Yasuhiro Shimazaki, Okayama Prefectural University, Japan	
11:00 - 12:30 Cassiopée Room	CCMA7: UHI mitigation strategies III : watering processes studies Session Chair: Cécile, Sylvie DE MUNCK, CNRS-Météo France	
	The implementation of biofiltration systems, rainwater tanks and urban irrigation in a sing canopy mode Matthias Demuzere, KU Leuven, Department of Earth and Environmental Sciences, Celestijnenlaan 200E, Belgium; CRC for Water Sensitive Cities, Australia	
	Impacts of urban heat island mitigation strategies on surface temperatures in downtown Nobumitsu Tsunematsu, Tokyo Metropolitan Research Institute for Environmental Protection, Japan	Tokyo
	Watering practices and urban thermal comfort improvement under heat wave conditions Maxime Danie, CNRM-GAME / Météo-France, France	
	The effect of irrigation on air temperature during heatwave conditions Ashley Mark Broadbent, Monash University	
	Rain Water Catchment Design Applied to Educational Centers in Mexico Jesús Gómez Velázquez, Universidad Autónoma Benito Juárez de Oaxaca, Mexico	
	Passive irrigation of street trees to improve tree health and support urban cooling Andrew Coutts, Monash University, Australia; CRC for Water Sensitive Cities	
11:00 - 12:30 St-Exupéry Amphitheater	GD7: Urban climatology studies II : tropical and arid climate cities Session Chair: Lee Chapman, University of Birmingham	
	Investigating the Effect of Land Use/Land Cover on Urban Surface Temperature in Makure Bernard Tarza Tyubee, Benue State University, Nigeria	di, Nigeria
	Spatial Distribution of Urban Heat Island and Intra-urban Air Temperature Variability in Hi Areas in Hong Kong Yingsheng ZHENG, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)	gh-density Urban
	STUDY OF HEAT ISLAND PHENOMENON IN ANDEAN COLOMBIAN TROPICAL CITY, CAS MANIZALES, CALDAS -COLOMMBIA Dalia Nuith Roncancio Rubio, Universidad Nacional de Colombia sede Manizales, Colombia	E OF STUDY:
	Changing perspectives: Significance of long-term temperature observations in major citie Alvin Varquez, Tokyo Institute of Technology, Japan	es
	Exploring the Spatial and Temporal Variation of Air Temperature in the Extreme Desert Cl Qatar M Salim Ferwati, Qatar University, Qatar;	limate of Doha,
	Analysis of observed temperature trends over urban, town and rural areas of Pakistan Sajjad Hussain SAJJAD, University of Sargodha, Sargodha - PAKISTAN, Pakistan; Laboratoire Image Ville Université de Strasbourg, France	e et Environnement,

11:00 - 12:30 Caravelle Room	NOMIM4: Large Eddy Simulation models Session Chair: Marina Neophytou, University of Cyprus	Thursday
	Large eddy simulation of internal boundary developments over a huge urban area with 2r Manabu Kanda, Tokyo Institute of Technology, Japan	n resolution
	Spatial Distribution of the Gust Index over an Urban Area in Tokyo Nurul Huda Binti Ahmad, Tokyo Institute of Technology, Japan	
	Large eddy simulation and bulk parameterization of momentum and heat transport in urb challenges and applications Qi Li, Department of Civil and Environmental Engineering, Princeton University, US	an canopies:
	Generation of artificial inflow turbulence including scalar fluctuation for LES based on Cl decomposition Tsubasa Okaze, Tohoku University, Japan	ıolesky
	LES simulations of forced convective heat transfer at the surfaces of an isolated building conformal grid Samy lousef, Architectural Urban Design and Engineering, Department of the Built Environment, Eindhover Technology, P.O. box 513, 5600 MB Eindhoven, The Netherlands	-
	Analysis of wind turbulence in canopy layer at large urban area using HPC database Tetsuro Tamura, Tokyo Institute of Technology, Japan	
12:30 - 14:15	Lunch break	
14:15 - 15:00 Cassiopée Room	CCMA8: UHI mitigation strategies IV : vegetation management processes Session Chair: Andrew Coutts, Monash University	
	The urban tree as a tool to mitigate the urban heat island in Mexico City: a simple phenon model	nenological
	Monica Ballinas, Instituto de Ecología, UNAM, Mexico; Centro de Ciencias de la Atmósfera, UNAM	
	Evaluating climate-related ecosystem services of urban tree stands in Szeged (Hungary) Ágnes Gulyás, University of Szeged, Hungary	
14:15 - 15:00 Spot Room	ID2: Multicriteria environmental perception Session Chair: Julia Hidalgo, LISST/CNRS	
	Thermal notations as a design tool: evaluating the thermal comfort of pedestrians moving sequences Carolina Vasilikou, Centre for Architecture and Sustainable Environment, University of Kent, United Kingdo	
	New qualitative methods to explore thermal perception in urban spaces Sanda Lenzholzer, Wageningen University, The Netherlands, Landscape Architecture	
	Performance standard for tropical outdoors: A proposal in a time of climate change Rohinton Emmanuel, Glasgow Caledonian University, United Kingdom	
14:15 - 15:00 Caravelle Room	NOMTM5: Wind tunnel and scale models Session Chair: Curtis Wood, Finnish Meteorological institute	
	The stone forest as a small-scale field model for urban climate studies Kai Wang, The University of Hong Kong	
	Interaction of severe convective gusts and typical urban structures Bodo Ruck, Karlsruhe Institute of Technology (KIT), Germany	
	Coupling of numerical weather prediction models and physical simulations for urban win Horia Hangan, WindEEE Research Institute, Western University, London, ON, Canada	d environment
14:15 - 15:00 St-Exupéry Amphitheater	NOMTM6: Urban Climate measurement networks Session Chair: Eric R. Pardyjak, University of Utah	
	Network optimization of urban heat island measurements -Effect of reduction of observat Tsuyoshi Honjo, Chiba University, Japan	ion points-

Challenges and benefits from crowd-sourced atmospheric data for urban climate research using Berlin,

Germany, as testbed Fred Meier, Chair of Climatology, Department of Ecology, Technische Universität Berlin, Germany

First results of the data acquisition and analysis of microclimate conditions in Barranquilla, Colombia Estefania Tapias, ETH Zurich, Switzerland

15:00 - 16:00 **POSTER SESSION (14-26)**

16:00 - 16:30 Poster session & Coffee break

16:30 - 18:00 Cassiopée Room	CCMA9: UHI mitigation strategies V : vegetation based strategies Session Chair: Matthias Demuzere, KU Leuven	Thursday
	Urban green belt outdoor thermal evaluation via leaf area index Meng-Chieh Tung, Dept. of Bioenvironmental Systems Engineering, National Taiwan University, Taiwan	
	How Do Green Roofs Mitigate the Urban Heat Island Effects under Heat Waves? Ting Sun, Tsinghua University, China, People's Republic of	
	Evaluation of greening scenarios to reduce Paris city vulnerability to future heat waves Cécile, Sylvie DE MUNCK, CNRM-GAME, CNRS UMR3589, Centre National de Recherches Météorologique France	ues, Toulouse,
	Green infrastructure and ecosystem services to tackle climate change in Chilean cities. Cristian Henriquez, Pontificia Universidad Católica de Chile, Chile	
	Evaluation of CO2 Reduction Effects of Buildings with Green Roofs by Using a Coupled U and Building-Energy Model Yujiro Hirano, National Institute for Environmental Studies, Japan;	Jrban-Canopy
16:30 - 18:00 Spot Room	ID2 (cont): Multicriteria environmental perception Session Chair: Lutz Katzschner, University Kassel	
	Physical load resulting from particulate matter, noise and thermal stress on inner-city pu An interdisciplinary analysis Bastian Paas, Department of Geography, RWTH Aachen University, Germany; Project house HumTec, RW University, Germany	
	Perception Studies on the Influence of Trees and Greens in Open Spaces for Environmen Taiwo Aderonke Ewulo, Department of Crop, Soil and Pest Management, Federal University of Technolog	•
	Observation of urban climate variability at local scale and comparison with human perce Noémie Gaudio ¹ , CNRS/Météo-France, France	ption
	Influence of urban climate on perception responses in soundwalks: case study Aachen Margret Sibylle Engel, Institute of Technical Acoustics, Medical Acoustics Group, RWTH Aachen Universit Department of Geography, RWTH Aachen University, Germany	y, Germany;
	A methodological approach to the environmental quantitative assessment of urban parks Pninit Cohen, Tel Aviv University, Israel	;
	Connecting urban climate and human well-being through the measurement of individually temperatures David Hondula, Arizona State University, United States of America	y experienced
16:30 - 18:00 Caravelle Room	NOMTM5 (cont): Wind tunnel and scale models Session Chair: Curtis Wood, Finnish Meteorological institute	
	Determining the impact of urban canopy flow on building ventilation rates: an experiment Janet Fraser Barlow, University of Reading, United Kingdom	tal study
	Dynamics of a street canyon flow from idealized field and wind tunnel experiments Karin Blackman, Ecole Centrale de Nantes, France	
	The improvement of outdoor thermal-wind environment and indoor energy consumption of the shape and the material of building for designing the block scale of the city Toshiaki Ichinose, National Institute for Environmental Studies, Japan	by the harmony
16:30 - 18:00 St-Exupéry Amphitheater	NOMTM6 (cont): Urban Climate measurement networks Session Chair: Christian Feigenwinter, University of Basel	Thursday

Climate moderation via green infrastructure – the potential to mitigate the UHI effect in Dar es Salaam Sarah Jane Lindley, University of Manchester, United Kingdom

HIGH-RESOLUTION URBAN HEAT ISLAND MEASUREMENTS AND ELECTRICITY APPLICATIONS IN BIRMINGHAM, UK

Juliana Antunes Azevedo, University of Birmingham, United Kingdom

Shanghai's Urban Integrated Meteorological Observation Network (SUIMON): case studies of applications Jianguo TAN, Shanghai Institute of Meteorological Science, Shanghai Meteorological Service, CMA, China, People's Republic of

The Urban Heat Island of a middle-size French city as seen by high-resolution numerical experiments and in situ measurements – the case of Dijon, Burgundy Benjamin POHL, CRC/Biogéosciences, CNRS, France

Urban climate monitoring system suitability for intra-urban thermal comfort observations in Novi Sad (Serbia) – with 2014 examples

Dragan D Milošević, Climatology and Hydrology Research Centre, Faculty of Science, University of Novi Sad, Serbia

20:00 - 22:30 Conference Dinner

Friday, 24 July 2015		
08:30 - 09:30 St-Exupéry Amphitheater	Plenary session IV: Green Infrastructures for Cities	
	Green Infrastructures for Cities Andrew Coutts, Monash University, Australia	
09:30 - 10:30 St-Exupéry Amphitheater	GD8: New remote sensing Technology and data Session Chair: Benjamin Bechtel, University of Hamburg	
	Spatial Geotechnologies and GIS tools for urban planners applied to the analysis of urban heat island. Case Caracas city, Venezuela. KARENIA CORDOVA SAEZ, UNIVERSIDAD CENTRAL DE VENEZUELA, Venezuela, Bolivarian Republic of	
	Fusion of World-view2 stereo and TerraSAR-X images for 3D building extraction in high-density urban areas Yong Xu, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)	
09:30 - 10:30 Caravelle Room	NOMTM10: Urban Canopy parameterizations II : development & sensitivity Session Chair: Jorge Gonzalez, City College of New York	
	Interfacing the urban land-atmosphere system with a coupled UCM-SCM framework: model development and sensitivity Zhihua Wang, Arizona State University, United States of America	
	Improving the water budget in the urban surface scheme TEB for a better evaluation of green infrastructures for adaptation purposes Katia Chancibault, LUNAM-IFSTTAR	
	Adequately and Efficiently Representing Heat Conduction and Storage for Urban Surfaces Mathew Lipson, Australian Research Council Centre of Excellence for Climate System Science; Climate Change Research Centre; University of New South Wales, Australia	
	Integration of Urban Microclimate Models using the QUIC EnvSim GPU Framework Peter Willemsen, University of Minnesota Duluth, United States of America	
09:30 - 10:30 Spot Room	TUKUP5: Indicators and climate maps I : risks & vulnerability Session Chair: Natasha Picone, CONICET/UNCPBA	
	Method for evaluating the health hazard risk in urban pedestrian space in extremely hot summer conditions based on the total analysis of mesoscale and microscale climates Saori Yumino, Tohoku University, Japan	
	Urban Heat Island measurements and sustainability maps to help access vulnerability and potential mitigation techniques in Birmingham and Auburn-Opelika, Alabama Chandana Mitra, Auburn University, United States of America	
	Spatial analysis for climate vulnerability assessments: How much granularity do we need? Joyce Ellen Klein-Rosenthal, Harvard University Graduate School of Design, United States of America; Harvard University Center for Population and Development Studies	
	Study of urban climate as a basis for climate adaptation and urban planning in Chilean cities Cristian Henríquez, Pontificia Universidad Catolica de Chile	
09:30 - 10:30 Cassiopée Room	UDC5: Buildings climate and energy consumption III : new models Session Chair: Yukihiro Kikegawa, Meisei University	
-	Urban Microclimate: A new software development for urban design and planning with urban heat island effect Aiko Nakano, MIT, United States of America	
	RESEARCH ON THE OUTDOOR CLIMATE DISTRIBUTION AND EFFECT FOR THE AIR-CONDITIONING LOAD OF A THOUSAND-METER SCALE SKYSCRAPER Junliang Cao, School of Municipal and Environmental Engineering,Harbin institute of technology, Harbin, People's Republic of China	

	Implementation of the TEB model as a new TRNSYS-TYPE for the Assessment of Urban Microclimate prior to Dynamic Building Thermal Simulation Fazia Ali-Toudert, TU Dortmund University, Germany
	Urban weather generator: a method to predict neighborhood-specific urban temperatures for use in building energy simulations Leslie Norford, Massachusetts Institute of Technology, United States of America
10:30 - 11:00	Coffee break
11:00 - 12:30 Caravelle Room	NOMTM10 (cont): Urban Canopy parameterizations II : development & sensitivity <i>Friday</i> Session Chair: Jorge Gonzalez, City College of New York
	Sensitivity analysis and optimization of an urban surface energy balance parameterization at a tropical suburban site Suraj Harshan, National University of Singapore, Singapore
	Using observations to improve modelled energy, water and carbon exchanges for urban areas Helen Claire Ward, University of Reading, United Kingdom
	Seasonal comparison of three urban land surface schemes in a high-latitude city of Helsinki Leena Järvi, University of Helsinki, Finland
	Validation of a Lumped Thermal Parameter Model coupled with an EnergyPlus Model using BUBBLE Data Miguel Martin, Masdar Institute of Science and Technology, United Arab Emirates
	Modelling anthropogenic heat in urban climate models: capturing agency Stefan Thor Smith, University of Reading, United Kingdom
11:00 - 12:30 St-Exupéry Amphitheater	NOMTM7: Field campaigns Session Chair: Andreas Christen, The University of British Columbia
	Joint analysis of meteorology and air quality in Helsinki, using air-quality supersites and an observation network Curtis Wood, Finnish Meteorological Institute, Finland;
	A novel approach for anthropogenic heat flux estimation from space Nektarios Chrysoulakis, Foundation for Research and Technology – Hellas, Greece;
	Land Surface and Climate Change Impacts on Temperature Variation in New York City Brian Vant-Hull, NOAA Crest of City College, United States of America;
	FluxSAP - A collaborative experimental campaign on water and energy fluxes in urban areas and the relation with the vegetation : the case of a Nantes district Fabrice Rodriguez, IFSTTAR, GERS/LEE, Bouguenais, France; IRSTV, Nantes
	The TERRACES project - A collaborative work to understand the role of vegetative green roof in refreshing the urban ambiances Remy Claverie, GEMCEA, France;
	PROGRAM MCITY BRAZIL Amauri Pereira Oliveira, University of São Paulo, São Paulo, Brazil;
11:00 - 12:30 Spot Room	TUKUP6: Indicators and climate maps II : urban planning Session Chair: Ifeoluwa Adebowale Balogun, Federal University of Technology, Akure
	Preparing urban climate maps using Local Climate Zones (LCZ) methodology to improve communication with urban planners: the case of Tandil city, Argentina Natasha Picone, IGEHCS - CONICET/UNCPBA, Argentine Republic
	Urban Climate Zoning for Making "Hint Map for Urban Planning" Kaoru Matsuo, Hiroshima University, Japan
	A GIS-based Modelling-Mapping Approach for Fine-Scale Natural Ventilation Evaluation in High Density Cities Chao Yuan, Massachusetts Institute of Technology, United States of America; Singapore University of Technology and Design, Singapore

11:00 - 12:30 Cassiopée Room	Session Chair: Fazia Ali-Toudert, TU Dortmund University	Filuay
	Translating the Urban Heat Island effect into power consumption for space-cooling: A case megacity Delhi, India	e-study of
	Anurag Kandya, Department of Civil Engineering, Indus University, Ahmedabad, India; Centre for Atmospher Institute of Technology Delhi, New Delhi, India	ic Sciences, Indian
	Sensitivity of electricity consumption to air temperature, air humidity and solar radiation in – Based on 2013 Osaka city observation – Yuki Hashimoto, The University of Tokyo, Japan	city-block scale
	Comprehensive validation of a simulation system for simultaneous prediction of urban clin energy demand Yukihiro Kikegawa, Meisei University, Japan	nate and building
	EXPLOITING URBAN PHYSICS - A 'Form First' Approach to Sustainable Urban Developmen Julie ann Futcher, Urban Generation, United Kingdom	nt
	Could urban climate modelling systems provide urban planning guidelines in the context of performance issues? Manon KOHLER, Laboratoire Image Ville Environnement, Strasbourg-France	f building energy
	Building Energy Demand under Urban Climate and Climate Change conditions with consid Morphology and Building Typology - GIS Mapping of the City of Stuttgart Limei Ji, TU Dortmund University, Germany	eration of Urban
12:30 - 14:15	Lunch break	
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14:15 - 16:00 Caravelle Room	NOMTM11: Mesoscale and Numerical Weather prediction models Session Chair: Dev Niyogi, Purdue University	
	Evaluation of building energy use: from the urban to the building scale Dasaraden Mauree, École Polytechnique Fédérale de Lausanne, Switzerland	
	High resolution Numerical Weather Prediction of the urban boundary layer – a comparison observations for London, UK Janet Fraser Barlow, University of Reading, United Kingdom	with
	Sensitivity of mesoscale models to scale-dependent UCP inputs Marina Neophytou, University of Cyprus, Cyprus; Swiss Federal Institute of Technology, ETH-Zurich, Switzer	land
	On the importance of horizontal turbulent transport in high resolution mesoscale simulation Alberto Martilli, CIEMAT, Spain	ns over cities.
	Impact of an Urban Land Surface Scheme on Local Climate Simulation for the Tokyo metro Toshinori Aoyagi, Meteorological Research Institute, Japan	politan area
	Sensitivity of different regional climate modeling techniques to study interactions between island and lake breeze Shiguang Miao, Institute of Urban Meteorology, China	urban heat
14:15 - 16:00	NOMTM8: New sensors / New methods I : CO2 & mobile measurements	
St-Exupéry Amphitheater	Session Chair: Roland Vogt, University of Basel	
	Using stable carbon and oxygen isotopes to attribute measured carbon dioxide emissions environments to different fuel sources Andreas Christen, The University of British Columbia, Vancouver Canada	in urban
	A Mobile Sensor Network to Map Carbon Dioxide across Urban Environments Joseph Kang Lee, Department of Geography / Atmospheric Science Programme, University of British Colum	bia, Vancouver
	Evaluating urban climate model simulations with low-cost air temperature measurements Maja Zuvela-Aloise, ZAMG, Austria	
	Innovative observations and analysis of human thermal comfort in Amsterdam B.G. Heusinkveld, Wageningen University, The Netherlands	
	Air temperature retrieval from crowd-sourced smartphone battery temperatures for Dutch of	cities and its

	application in mesoscale model validation Gert-Jan Steeneveld, Wageningen University, Netherlands, The Netherlands	
	Statistical Partitioning Of Net Carbon Dioxide Fluxes Over A Heterogeneous Urban Landsca Olaf Menzer, UC Santa Barbara, United States of America	ape
	Calculation of the CO2 storage term in an urban environment: results and guidelines from C Alex Bjorkegren, King's College London, United Kingdom	Central London
14:15 - 16:00 Spot Room	TUKUP7: Warning plans & Decision support tools Session Chair: Morgane Colombert, Université Paris Est, EIVP, Lab'Urba, EA 3482	Friday
	CLIMATIC CHANGE ADAPTION AMIDST OTHER ENVIRONMENTAL HAZZARDS Shukuli Mukangango, Regional Climate Change Support Initiative (RCCSI), Uganda	
	Water Induced Livelihood Impact and Adaptation Strategy of Farming Households in Manol peri-urban area of Kathmandu, Nepal) Hari Bahadur Thapa, Ministry of Energy, Nepal	nara River, (A
	Assessing the health impact of the Urban Heat Island of Birmingham, UK Paul Anthony Fisher, University of Birmingham, United Kingdom	
	The Urban Heat Island effect during heatwaves in Melbourne Cassandra Denise Wilks Rogers, Monash University, Australia; CRC for Water Sensitive Cities	
	Communicating Climate Change to Urban Planners in the Great Lakes: Cities Impacts and A Evan Sheppard Mallen, University of Michigan Graham Sustainability Institute	Adaptation Tool
	Science communication with analysis by stakeholder themselves Tooru Sugiyama, Japan Agency for Marine-Earth Science and Technology, Japan	
14:15 - 16:00 Cassiopée Room	UDC7: Buildings climate and energy consumption II : temperate and cold climate of Session Chair: David J Sailor, Portland State University	tiies
	URBAN MICROCLIMATE AND BUILDING ENERGY: A COUPLED SIMULATION APPROACH Maya MILLIEZ, EDF R&D EnerBaT, Moret-sur-Loing, France	
	The urban heat island and its influence on building energy consumption in England and So Geoffrey John Levermore, The University of Manchester, School of Mechanical, Aerospace and Civil Engein Kingdom; School of Space Design, Ulsan College, South Korea;	
	Assessment of urban cooling strategies impact using a coupled model for urban microclim energy simulation Adrien Gros, University of La Rochelle, LaSIE FRE CNRS 3474 (France); Institut de Recherche des Sciences Ville (France)	Ū
	Outdoor human comfort and climate change. A case study in the EPFL campus in Lausann Silvia Coccolo, LESO-PB, EPFL, Switzerland	e
	Taking into account building environment in the energy consumption evaluation Benjamin MORILLE, IRSTV – FR CNRS 2488, France	
	Urban Greening and the UHI: Seasonal Trade-offs in Heating and Cooling Energy Consump Manchester, UK Cynthia Pamela Skelhorn, Qatar Green Building Council, Qatar	tion in
	URBAN CANYONS MORPHOLOGY, THERMAL COMFORT AND URBAN DESIGN IN CONCEP CHILE	PCION'S CITY,
	Cristobal Lamarca, Pontificia Universidad católica de Chile, Chile	
16:00 - 16:30	Coffee break	
16:30 - 17:45 Caravelle Room	NOMTM11 (cont): Mesoscale and Numerical Weather prediction models Session Chair: Dev Niyogi , Purdue University	
	Simulation of the urban heat island under the background of urbanization around Guangzh Guang Chen, South China University of Technology, China, People's Republic of; Tohoku University,Japan	ou
	The Impact of Land Use/Land Cover on WRF Model Performance in a Sub-Tropical Urban E Shweta Bhati, Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, India	nvironment

Urban heat island over northern Taiwan: Numerical study using WRF coupled with a 2-D urban canopy model Chuan Yao Li, Academia Sinica, Taiwan, Republic of China; Development of a fine-scale numerical weather prediction system for urban areas: Preliminary results Shiguang Miao, Institute of Urban Meteorology, China Meteorological Administration, Beijing, China NOMTM9: New sensors / New methods II : UBL & UHI Friday 16:30 - 17:45 Session Chair: Eberhard Parlow, University Basel St-Exupéry Amphitheater Mixing height over London: spatio-temporal characteristics observed by Ceilometer networks Simone Kotthaus, University of Reading, Department of Meteorology, United Kingdom New York Metro-Area Boundary Layer Catalogue: Boundary Layer Height and Stability Conditions from Long-Term Observations David Melecio-Vazquez, The City College of New York, United States of America Multi-point Doppler Lidar observation in urban area Ryoko Oda, Chiba Institute of Technology, Japan; Measuring the real-world effects of urban heat island countermeasures: a case study of pavement-watering Martin Hendel, Paris City Hall, Water and Sanitation Department, France; Université Paris Est, EIVP, Lab'Urba, EA 3482; Univ Paris Diderot, Paris Sorbonne Cité, MSC, UMR 7057, CNRS TUKUP7 (cont): Warning plans & Decision support tools 16:30 - 17:45 Session Chair: Alexander Baklanov, World Meteorological Organization (WMO) Spot Room The CapaCities project: from Concepts to Actions for a Proactive Adaptation of Cities Marion Bonhomme, ENSA Toulouse - LRA (Laboratoire de Recherche en Architecture), France; UMEP - An integrated tool for urban climatology and climate-sensitive planning applications Fredrik Lindberg, University of Gothenburg, Sweden Integration of adaptation to climate change within the design process of urban planning projects : new tool(s) and new methodology(ies) Morgane Colombert, Université Paris Est, EIVP, Lab'Urba, EA 3482, France Review of tools for Quantifying the Contribution of Green Infrastructure to Carbon Performance Conrad Heinz Philipp, University of South Australia, Australia

16:30 - 17:45 Cassiopée Room	UDC8: Buildings climate and energy consumption I : tropical, continental and arid climate cities Session Chair: Matthias Roth, National University of Singapore
	Impact of increasing the depth of urban street canyons on building heating and cooling loads: Case study of Tel Aviv, Israel Evyatar Erell, Ben-Gurion University of the Negev, Israel
	Evaluation of Smart Shading Structures in Mitigating Urban Heat Island in a districts of Hot Arid Climate City (Abu Dhabi) Lindita Bande, Polytechnic of Milan, Italy
	Climate-responsive residential buildings in India. Just a drop in the ocean? Marco Simonetti, DENERG, Politecnico of Turin, Italy
	Shading effect of Alley Trees and Their Impact on Indoor Comfor Flóra Szkordilisz, Budapest University of Technology and Economics, Hungary
	Energy and Comfort in School Buildings in the South of Portugal Eusébio Zeferino Encarnação da Conceição, University of Algarve, Portugal
17:45 - 18:00 St-Exupéry Amphitheater	Closing of the conference

Interaction of Urban Heat-island Intensity With Heatwaves: A Numerical Study Prathap Ramamurthy, City College of New York, United States of America

Numerical simulations on Influence of Urban Land Cover Expansion and Anthropogenic Heat Release on Urban Meteorological Environment in Pearl River Delta, China Ning ZHANG, Nanjing University, China, People's Republic of

Dimensional analysis of the urban canopy heat island Natalie Theeuwes, Wageningen University, Netherlands, The

STUDY ON THE URBAN HEAT ISLANDS AND THE METEOROLOGICAL ELEMENTS OVER THE PEARL RIVER DELTA Baomin Wang, Sun Yat-sen University, China, People's Republic of

Important Role of Thermal Inertia for Urban Heat Island Circulation Dynamics Masanori Onish, Kobe University, Japan

Modeling New York City impacts on local and suburban weather during the July 2010 heat wave Luis E. Ortiz, City College of New York, United States of America

Urbanization Impacts on Climatology of Planetary Boundary Layer Heights over the Continental United States Dev Niyogi, Purdue University

Study of urban atmospheric boundary layer height analysis by aerosol lidar and ceilometer Min-Hyeok Choi, WISE Project, Korea, Republic of (South Korea)

Observations of the morning growth of the Urban Convective Boundary Layer Christos H Halios, University of Reading, United Kingdom

Modelling the seasonal dependency of contributions to urban heat islands in Belgium Hendrik Wouters, KU Leuven, Belgium

Urban Heat Island Assessment for a Tropical Urban Air-shed in Bangladesh Mohan Kumar Das, SAARC Meteorological Research Centre (SMRC), Dhaka, Bangladesh; Jahangirnagar University, Savar, Bangladesh

Meteorological characteristics in urban green areas using multi sensor Geun-Hoi Kim, KMA/nimr, Korea, Republic of (South Korea)

Assessing the impact of upwind urbanization on the urban heat island effect of downwind areas: a case study in Wuhan, China

Xuefan Zhou, Huazhong University of Science and Technology, China, People's Republic of

Effect of Urban Morphology on the Urban Air Temperature - Traverse Study Xinyan Yang, the University of Hong Kong, Hong Kong S.A.R. (China)

Urban heat island as a result of land use land cover changes over an Urban set up Daniel Muange Mbithi, Kenya Meteorological Services, Kenya

AN ASSESSMENT OF MICROCLIMATIC VARIATIONS: A STUDY IN DHAKA CITY (Bangladesh) Yasin Wahid Rabby, University of Dhaka, Bangladesh, People's Republic of

Multiyear underground thermal interaction between the soil, the building and the atmosphere STAMATIS ZORAS, Democritus University of Thrace, Greece

CHARACTERISTICS OF URBAN HEAT ISLAND IN SHILLONG, INDIA PHIBANKHAMTI RYNGNGA, North Eastern Hill University, India

Assessment of Land Surface Properties Impact on Near Surface Air Temperature in Urban Environments Rouzbeh Nazari, Rowan University, United States of America

Effect of urbanization on the urban climate in coastal city, Fukuoka-Kitakyushu metropolitan area, Japan Yoichi Kawamoto, Kyushu University, Japan

IMPACT OF URBAN EVOLUTION ON LOCAL TEMPERATURE TRENDS OF TWIN CITIES: THE CASE OF RAWALPINDI AND ISLAMABAD IN PAKISTAN

Sajjad Hussain SAJJAD, Department of Earth Sciences, University of Sargodha, 40100 Sargodha - Pakistan

A study on the temperature distributions in coastal and high-rise urban area Masaru Sasaki, Hiroshima University, Japan

Comparison of the temperatures of a concrete roof and a green area in central Tokyo Eiko Takaoka, Sophia University, Japan

Experiments on community heat island intensity in hot-humid area of China

Jie Wu, South China University of Technology, China, People's Republic of;²Guangxi University, China, People's Republic of

Extraction of diurnal variation patterns of the heat island intensity by the fixed point observation and multivariate analysis : in August, 2013 in Kumagaya, Japan

Yusuke Nakamura, Rissho Univ., Japan

The Urban Heat Island Intensities in Greek cities as a function of the characteristics of the built environment Nikos Papamanolis, Technical University of Crete, Greece

Analysis of Urban Heat Island Estimates under Varying Land Use/Land Cover and Reference Site Conditions Using WRF Model

Shweta Bhati, Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, India

Investigation of urban heat island of Norilsk and Apatity cities in Russian Arctic with usage experimental measurements and remote sensing

Mikhail Varentsov, Lomonosov Moscow State University, Faculty of Geography, Depatment of Meteorology and Climatology, Moscow, Russia; A.M. Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow, Russia;

Analysis of heat environment change in the Seoul metropolitan area of Korea by urbanization during 10 years (2000-2009) Bo-Ra LEE, National institute of meteorological research, Korea, Republic of (South Korea)

Quantifying the influence of geourbans variables in the variability of urban heat island in a small town in Brazil Elis Dener Lima Alves, Univesidade de São Paulo, Brazil

POSTER 2: UCD - Impact of urban forms on comfort and ventilation

Climatically Adapted Piloti Arrangement and Ratio of Residential Blocks in a Subtropical Climate City Zeng Zhou, Wuhan University, China; ²Tohoku University, Japan

Study on the Green Strategies of Chinese "Neo-vernacular Architecture" Design Ying Wang, Huazhong Unversity of Science and Technology, China, People's Republic of

Microclimate Regulation by Trees in a Subtropical High-Density Urban Environment during Sunny and Cloudy Weather Zheng Tan, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)

PROPOSITION OF AN INDEX QUANTIFYING THE AMOUNT OF VEGETATED FRACTION NEEDED FOR AIR TEMPERATURE CHANGES IN URBAN LOCATIONS

Eduardo Kruger, UTFPR, Brazil, Germany

Study on the Cooling Effects of Green Spaces for Improving the Outdoor Thermal Environment in the High-density Cities: A Case Study of Macau Peninsula

Fangying Gong, School of Architecture, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)

Influence of different urban configurations on human thermal conditions in a typical subtropical coast city: case of Santos, São Paulo Andreas Matzarakis, Albert-Ludwigs-University Freiburg, Germany

Variability of longwave radiation in a midsize city: Experiments in free spaces in São Carlos-SP. Gustavo Zen de Figueiredo NEVES, University of São Paulo, Brazil

Green infrastructure enhancement in Glasgow: A proposal based on Local Climate Zone evaluation of urban morphology in a shrinking city Rohinton Emmanuel, Glasgow Caledonian University, United Kingdom

Cold and urban design. Challenging Russian cities Anna Nesterova, Politecnico di Milano, Italy

The influence of urban geometry on thermal comfort of public open spaces for Italian climate zones Andreas Matzarakis, Albert Ludwigs University, Freiburg, Italy

Architectural bioclimatic analysis of kashan and presentation rahmat daryaei, student, Iran, Islamic Republic of technical and vocational rajaeikashan university

Quantification of thermal bioclimate of Erzurum based on different land uses and thermal band information Sevgi Yilmaz, Ataturk University, Turkey

Mill Avenue, Tempe, AZ Downtown Microclimate - an APA-designated Best Street anthony james brazel, arizona state university, United States of America

Summer and winter thermal and comfort conditions inside a vegetated courtyard area of a Mediterranean city (Athens)

Vasiliki Christopoulou, Agricultural university of Athens, Greece

Study of urban ventilation corridor planning method based on a case study of Guiyang, China Yugang Guan, Huazhong University of Science and Technology, China, People's Republic of

STUDIES BY ASSOCIATING THE URBAN MORPHOLOGY AND THE VENTILATION: RESIDENTIAL VILLAGE OF UFRJ Patricia Regina Chaves Drach, UFRJ, Brazil

Using GIS tools to assess the urban environment influence on the particles concentration variability in Paris Sarah Duché, PMCLab - University Pierre & Marie Curie, Paris, France

Role of Vegetation, urban morphology and building rise in air quality and urban heat island: simulations in five Parisian neighborhoods. Alberto ORTIZ, EIVP, France; University of Mons, Belgium

Analysis of Detailed Air Flows in Urban Areas Using GIS Data and a CFD Model A-Rum Kwon, pukyoung national university, Korea, Republic of (South Korea)

POSTER 3: CCMA - Climate modelling tools, impact studies and adaptation strategies

Climate change 2050 in two cities in different climate zones: Hamburg and Jakarta. Simulations with COSMO-CLM+TEB. Kristina Trusilova, Deutscher Wetterdienst, Germany

Numerical Simulation on Regional Climate Change Accompanying the Rapid Urbanization of Greater Ho Chi Minh City Metropolitan over the Past 20 Years

Quang Van Doan, University of Tsukuba, Japan

Simulations of Moscow agglomeration climate with COSMO-CLM regional model, coupled with TEB urban scheme, for present and future climate

Mikhail Varentsov, Lomonosov Moscow State University, Faculty of geography, Depatment of meteorology and climatology, Moscow, Russia; A.M. Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow, Russia

Régionalisation des paramètres climatiques. Cas de la ville de Annaba Lahbassi OUERDACHI, Badji Mokhtar Annaba University - Algeria, Algeria

CLIMATE WARMING IMPACT ON THE FLOOD DISCHARGES TIME IN SOME TIGRIS RIVER TRIBUTARIES IN IRAQ Thair Mahmood AI-Taiee, Mosul University, Iraq

Future climate of Brussels and Paris for the 2050s under the A1B scenario Rafiq Hamdi, Royal Meteorological Institute of Belgium, Belgium

Future air quality of the Brussels Capital Region for the 2050s under A1B emission scenario Rafiq Hamdi, Royal Meteorological Institute of Belgium, Belgium

Mitigating the impact of environmental degradation on climatic change and global warming Skyler Jayden Dembe, Green World Uganda (GWU), Uganda

Projection of the rural and urban human thermal comfort in the Netherlands for 2050 Gert-Jan Steeneveld, Wageningen University, Netherlands, The Netherlands

Long-term variability of suburban energy and water exchanges in Vancouver Tom Valtteri Kokkonen, University of Helsinki, Finland

Contribution of Urbanization and Future Climate Change to Urban Heat Island: Case Study of a Severe Heat Wave over Beijing, China

Dev Niyogi, Purdue University

Monitoring of Air pollution and black cloud influence on Aerosol optical properties over Nile Delta based on Moderate Resolution Imaging Spectroradiometer (MODIS) and climatic data from 2002-2012 Hossam Ismael, Assuit University, Faculty od Arts, Geography department, Egypt

Vulnerability and Adaptation in the Ukrainian Cities under Climate Change Olga Shevchenko, Kiev Shevchenko University, Ukraine

Warming of the annual minimum temperatures of rural and urban stations in the French Mediterranean region (1951-2010) Annick Douguédroit, Aix-Marseille University, UMR ESPACE 7300

The decadal projection of the Belgian urban heat island under changing climate and land use Julie Berckmans, Royal Meteorological Institute of Belgium; University of Antwerp, Belgium

Environmental Impacts of Wind Power in Egypt Mohamed Mohamed Hefny Salim, Aswan University, Egypt Study on measures for adaptation to future climate change in a Japanese major city Nagoya using pseudo global warming downscaling method

Youhei Ymakawa, Meisei Univercity, Japan

Assessment of landscape design to fight against Urban Heat Island effects through various combinations of heat mitigation strategies

T. F. Zhao, City University of Hong Kong, Hong Kong S.A.R. (China)

New funding programs related to urban climate and urban adaptation Paul Dostal, DLR - German Aerospace Center, Projectmanagement Agency, Germany

POSTER 4: TUKUP - Public policies and practicies

Implementing Climate Resiliency through Local Disaster Recovery Planning Joyce Klein Rosenthal, Harvard University, Boston, United States of America

POSTER 5: UCP - Flux observations

On the anthropogenic heat release due to vehicle traffic determination in Mexico City: a preliminary study Victor L Barradas, Instituto de Ecología, UNAM, Mexico

Measurements of the Green Roof Energy Balance in Three Canadian Cities James Voogt, Western University, Canada

Longterm measurments of the urban energy and CO2 flux in Dublin, Ireland Gerald Mills, UCD, Ireland

The hourly profile of the anthropogenic component of the surface energy balance for the urban region of the Mexico City Gloria Victoria Salas, National Institute of Ecology and Climate Change, Mexico

GHG EMISSIONS ESTIMATION OVER A MEDITERRANEAN CITY THROUGH DIRECT MEASUREMENTS AND INVENTORY APPROACH

Serena Marras, DipNET, University of Sassari, Italy; CMCC, Euro-Mediterranean Centre on Climate Change, Italy

POSTER 6: NOMTM - Vegetation in urban canopy parameterizations

Development and implementation of tree processes in an urban canopy model Zhihua Wang, Arizona State University, United States of America

POSTER 7: UCP - Air quality in urban boundary layer

Air quality in São Paulo – Brazil: temporal evolution and spatial distribution of carbon monoxide, coarse particulate matter and ozone

Flávia Noronha Dutra Ribeiro, University of São Paulo, Brazil

Particle Matters (PM) air pollution in the metropolitan area of Haifa, Israel - The role of synoptic conditions and wind regime Hadas Saaroni, Tel Aviv University, Israel

Evaluation of the mesoscale effect of photocatalytic pavements and vegetation on air quality Alberto Martilli, CIEMAT, Spain

The ClearfLo project – The influence of turbulent mixing properties of London's urban boundary layer on surface and elevated O3 and NOX pollutant concentrations

SI Bohnenstengel, MetOffice@Reading, Reading, UK; Department of Meteorology, University of Reading, Reading, UK

Reduction of pollutant concentrations within the urban canopy and indoor environment Misaki Tanimoto, Graduate School of Engineering, The University of Tokyo

Aerosol Pollution over the largest cities of Russia Natalia Ye. Chubarova, Lomonosov Moscow State University, Russian Federation

LINKING URBANIZATION AND SEASONAL VARIATIONS IN AIR QUALITY OF LAGOS METROPOLIS STREET CANYON cornelius oyetunji akanni, olabisi onabanjo university, Nigeria

Aircraft measurements and WRF-FARM modeling of ozone, particles and pollutants in the city of Naples-Caserta Daniele Gasbarra, National Research Council, Institute for Agricultural and Forestry Systems in the Mediterranean (CNR-Isafom), Napoli, Ital;

FLUXES OF URBAN POLLUTION FROM THE CITY OF NAPLES

Daniela Famulari, National Research Council, Institute for Agricultural and Forestry Systems in the Mediterranean (CNR-Isafom), Via Patacca 85, 80040 Ercolano (Na), Italy

Contributions of Biomass Burning and Traffic Emissions to Particulate Matter at two Urban Sites within the Ruhr Area, Germany

Stephan Weber, Technical University of Braunschweig, Institute for Climatology and Environmental Meteorology, Braunschweig, Germany

A numerical study on the effects of street aspect ratio on reactive pollutants dispersion Soo-Jin Park, Pukyong National University, Korea, Republic of South Korea

POSTER 8: BPH/UDC - Outdoor microclimate, modelling and link with urban form

Evaluation on the outdoor thermal climate using an integrated urban canopy model and geographic information: a case study in Shenzhen

Lin Liu, School of Municipal and Environmental Engineering, Harbin Institute of Technology, China, People's Republic of

CLIMATE AND ENVIRONMENTAL PLANNING: A CASE STUDY ON INTRA-URBAN AREA OF THE CAMPUS I UFPB Anne Falcão de Freitas, UFPB, Brazil

Human thermal comfort within an urban district dependent on topography and different planning scenarios - numerical case study for the city of Stuttgart (Southwest Germany) on a heat wave day Hyunjung Lee, Albert-Ludwigs-University of Freiburg, Germany

The impact of green space distribution on the microclimate of idealized urban grids. Aristotelis Vartholomaios, Aristotle University of Thessaloniki, Greece

An economical method to estimate the air temperature and humidity around buildings on long time scales Xiaoshan Yang, Nanjing Tech University, China; South China University of Technology, China

Quantifying the impact of surface heterogeneities on the radiative response of a simplified urban surface Simone Kotthaus, University of Reading, Department of Meteorology, United Kingdom;

Street geometry design and its effect on mean radiant temperature: A parametric study based on numerical modelling Kevin Ka-Lun Lau, Department of Earth Sciences, University of Gothenburg, Sweden;

Validation of ENVI-met PMV values with in-situ measurements Dain Jeong, Changwon national university, Korea, Republic of (South Korea);

Analysis of the Cool Roof Effect through a Building Modeling Experiment Gyeongah Kim, Changwon National University, Korea, Republic of (South Korea)

Study of human thermal comfort for architecture in China – The Example of Shanghai Shi-Qi Yang, Albert-Ludwigs-University Freiburg

Mean Radiant Temperature in urban spaces from solar calculations, climate and surface properties – theory and 'Mr.T' software

Oded Potchter, Department of Geography, Tel Aviv University

ARIStree – A L-System-Based Plant Modeling Tool for ENVI-met Jan Hofmeyer, Johannes Gutenberg-University Mainz, Germany

Optimizing Outdoor comfort of pedestrian and open space in cities base on climatic conditions ,Case study the KASHAN city.

hojat ebrahimi, rajaee, university, Iran, Islamic Republic of

Temporal differences of urban-rural biometeorological factors for planning and tourism in Szeged, Hungary Ronja Vitt, Albert-Ludwigs-University Freiburg, Germany

Analysis of 3D radiant fluxes using SOLWEIG in complex urban area Hyuk-Gi Kwon, Weather Information Service Engine Project, KMA, Republic of South Korea

Analysis and modelling of meso- and microscale urban climate in Bucharest, Romania Andreas Wicki, MCR University Basel, Switzerland

Raytracing of solar radiation for urban microclimate study Daniel Jun Chung Hii, National University of Singapore, Singapore

Evaluation of mitigation strategies to improve pedestrian comfort in a typical Mediterranean city Silvana Di Sabatino, ALMA MATER STUDIORUM - University of Bologna - DIFA - Bologna (Italy); RESEAUX S.r.I. - Lecce (Italy) The heat stress assessment of two contrasted outdoor urban environments: the examples of Lisbon (Portugal) and Bucharest (Romania).

David Gonçalves Marques, CEG/IGOT University of Lisboa, Portugal

Analysis of 3 Dimensional Sunshine Duration Environment in an Urban Area EUN-RYOUNG KIM, PUKYONG, Korea, Republic of (South Korea)

The variation of sky view factor from urban geometry Kwanho Lee, Ulsan college, Korea, Republic of South Korea

PLANNING OF GREENING BASED ON INTEGRATED EVALUATION OF THERMAL ENVIRONMENTS AND ECOSYSTEM Azusa Ono, Shimizu Corporation, Japan

Improving the Micro Climate in the former Tempelhof Airport of Berlin regarding different Development Strategies Gregor Meusel, Free University of Berlin, Germany

Building Shading Envelopes and Microclimatic Design - The Museum of European and Mediterranean Civilisations Agapi Fylaktou Cattaneo, Agapi Fylaktou Cattaneo, United Kingdom

Effects of changing surface characteristics and design on the microclimate of a tropical urban area using the model Solene Natália Carolina Sousa Nascentes Marra, Federal University of Minas Gerais, Brazil

Using lichen diversity to evaluate the impact of Urban Heat Island Effect Cristina Branquinho, Faculdade de Ciências, Universidade de Lisboa, Portugal

POSTER 9: CCMA - UHI mitigation strategies

Impact of urban expansion and densification on local climate

Carlo Agapay Jamandre, Australian Research Council Centre of Excellence for Climate System Science; Climate Change Research Centre; University of New South Wales, Australia

Moderation of summertime heat-island phenomena via modification of the urban form in the Tokyo metropolitan area Sachiho A. Adachi, Advanced Institute for Computational Science, RIKEN, Japan

Modeling NOx and benzene emissions and exposure from road traffic and domestic heaters in street canyons: a case-study in Verona, Italy

Lorenzo Giovannini, University of Trento, Italy

Mitigation of Urban Heat Island of Prague

Michal Zak, Czech Hydrometeorological Institute, Czech Republic; Faculty of Mathematics and Physics, Charles University

POSTER 10: UCP - Interaction between cities and mesoscale flows and precipitations

Modeling impacts of New-York-City metropolitan land cover on regional precipitation Wei Wu, Brookhaven National Laboratory, Upton, NY, United States of America

Characteristics of the spatiotemporal pattern of Extreme Rainfall event over the state of Uttarakhand, India Vidhi Bharti, Indian Institute of Remote Sensing, Indian Space Research Organization, Dehradun, India; ITC, University of Twente, The Netherlands

ANALYSIS OF CLOUD PROPERTIES IN THE MATSUYAMA PLAIN USING DOWNWARD SOLAR RADIATION DATASET FROM A GEOSTATIONARY SATELLITE

Deepak Bikram Thapa Chhetri, Ehime University, Japan

URBAN DRY ISLAND PHENOMENON AND ITS IMPACT ON CLOUD BASE LEVEL AND SOLAR RADIATION IN MATSUYAMA PLANE Sweata Sijapati, Ehime University, Japan

Observations and numerical simulations for TOMACS urban heavy rainfall cases Naoko Seino, Meteorological Research Institute, Japan

Interaction of Singapore and Johor Bahru on urban climate during monsoon seasons Jochen Kraus, University of Graz, Austria

Land use changes of eastern egyptian desert for suastainable urban development Mohamed Magdy Abdel wahab, Cairo University Egypt, Egypt

Effect of the River in the Urban Area on Local Climate in the Vicinity of the River Naoshi Kakitsuba, Meijo University, Japan

Idealized experiments on the development of urban warming under various geographical conditions using a meso-scale meteorological model

Rui Ito, Disaster Prevention Research Institute, Kyoto University, JAPAN

effect of small-scale surface heterogeneities and buildings on radiation fog MASSON Valery, CNRM-GAME, France

The altered hydrologic cycle of the Mexico City basin. Nuria Delia Vargas, UNAM, Mexico

POSTER 11: GD - Surface UHI from satellite

Evaluation of the Influence of Land-use/Land-cover Change on the Surface Temperature of Federal Capital City Abuja,Nigeria Abdulhamed Adamu Ibrahim, Ahmadu Bello University,Zaria, Nigeria

Investigating Urban Cool Islands In Semi Arid Areas, With the case study of Erbil. Azad Othman Rasul, University of Leicester, United Kingdom

Combining Satellite and Ground Observations to Assess the Urban Heat Island in Morocco Najlaa FATHI, LHEA, Vulnerability and Adaptation to Climate Change in Morocco (GRIVAC), Cadi Ayyad University ; Faculty of science Semlalia, Morocco

Analysis of Surface Temperature Accuracy in ASTER Images according to Land-Use Type Bongguen Song, National Institute of Ecology, Korea, Republic of (South Korea)

Geospatial Assessment of Urban Expansion and Land Surface Temperature in Akure, Nigeria Ifeoluwa Adebowale Balogun, Federal University of Technology, Akure, Nigeria

Urbanisation Influence on Microclimatic Conditions of a Pre-Colonial City in Nigeria Ifeoluwa Adebowale Balogun, Federal University of Technology, Akure, Nigeria

Urban 'heat island' in Moscow by satellite data

Mikhail A. Lokoshchenko, Lomonosov Moscow State University, Faculty of Geography; Russian Federation

Observation of Urban Thermal Regime in Abu Dhabi city using Satellite Remote Sensing Rajakrishna Kambhampati, Masdar Institute of Science and Technology, United Arab Emirates

Identify oh heat island through the remote sensing in the Santarém Municipality. Joao Roberto Feitosa, Universidade Federal do Oeste do Pará, Brazil

Analysing the climatic effects of local block rehabilitation programs in Budapest-Ferencvaros Rita Pongracz, Eotvos Lorand University, Hungary

Analysing the urban vegetation effect using satellite imagery for Budapest Rita Pongracz, Eotvos Lorand University, Hungary

POSTER 12: GD - Local Climate Zones and urban databases

Urban surface parameter (SVF, roughness) calculation using 3D urban database Nóra Skarbit, University of Szeged, Hungary

Impact of spatial and spectral resolutions on the classification of urban areas Marion Bonhomme, École Nationale Supérieure d'Architecture de Toulouse, France

Scaling of cities into the future: Using scaling relations of the recent past to assess 21st century projections of urban growth Geoffrey Henebry, Geospatial Sciences Center of Excellence, South Dakota State University, United States of America

Detection of Urban Area from Landsat 8 for Mesoscale Modeling Purposes Nisrina Setyo Darmanto, Department of International Development Engineering, Tokyo Institute of Technology, Tokyo, Japan

An automatic GIS procedure to calculate urban densities to use in Urban Climatic Maps António Lopes, CEG/IGOT – University of LISBOA, Portugal

POSTER 13: UCP - Influence of urban vegetation

Tree transpiration as a potential mechanism to mitigate the urban heat island in Mexico City Victor L Barradas, Instituto de Ecología, UNAM, Mexico

Leaf-turning tree species and their local climatic impacts on the city Sascha Henninger, University of Kaiserslautern, Germany

Relevance of geometry and other basic parameters of urban trees on conditions of water and heat stress in long lasting heat

waves - a simulation approach Helge Simon, Environmental Modelling Group, Germany

Impact of Greening Area Ratio on Urban Climate in Hot-summer and Cold-winter City

Qinli Deng, Tohoku University, Japan

Cooling effects of large green park on urban atmosphere observed at the Osaka Castle Park in Osaka, Japan Yoshinori Shigeta, Rissho University, Japan

The TERRACES project - Qualifying and quantifying the changes in the urban energy balance using vegetative green roofs (VGR).

Maeva Sabre, CSTB, France

Influence of the urban vegetation fraction on the urban heat island effect in different climate zones across Europe Arjan Marten Droste, Wageningen University, Netherlands, The

INFLUENCE OF MANAGEMENT OF THE ARBORICULTURE ON URBAN THERMAL COMFORT Lucila Chebel Labaki, UNICAMP, Brazil

Cooling effect of urban green against urban heat island effect - PIV observatian of the airflow from an urban green space Hiroshi Miyazaki, Kanasai University, Japan

Influence of nearby plants and artificial structures on the surface air temperature statistics: Continuous in-situ measurement at central Tokyo (Otemachi)

Fumitake SHIDO, Meteorological Research Institute, JMA, Japan

Influence of Meteorological Variables, Trees and Greens in Open Spaces on Environmental Quality Taiwo Aderonke Ewulo, Department of Crop, Soil and Pest Managemet, Federal University of Technology, Akure, Nigeria

Impact of surrounding building geometry, vegetation and ground cover on the variation of Microclimatic parameters and thermal comfort within urban open spaces Vidya Vinayak Ghuge, Visvesvaraya National Institute of Technology, India

POSTER 14: UCP - Flows and dispersion

Study on Development of Source Term Estimation Methods Masamichi OURA, The University of Tokyo, Japan

Intraurban variability of particulate air pollution in Hong Kong - exploring the influence of building morphology in high density urban environment by using traverse measurement Yuan SHI, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)

EVALUATION OF A CFD MODELLING APPROACH BY MEANS OF AN INTENSIVE EXPERIMENTAL CAMPAIGN USING PASSIVE SAMPLERS IN AN URBAN AREA OF MADRID

Jose Luis Santiago, Air Pollution Division, Environmental Department, CIEMAT, Madrid, Spain;

Wind tunnel experiment on turbulent flow field around 2D street canyon with Eaves Tsuyoshi Sato, Kyushu University, Japan

MODELLING OF URBAN GREENING EFFECTS ON AIR QUALITY IN AN UNDEVELOPED RESIDENTIAL AREA

Jose Luis Santiago, Air Pollution Division, Environmental Department, CIEMAT, Madrid, Spain

Improving Air Quality in High-density Cities by Understanding Air Pollutant Dispersion and Urban Morphologies, A Case Study in Hong Kong

Chao Yuan, Massachusetts Institute of Technology, United States of America; Singapore University of Technology and Design, Singapore

POSTER 15: TUKUP - Weather forecasting for city actors

Urban climate monitoring networks based on LCZ concept János Unger, University of Szeged, Hungary

A very-short term nowcast for warnings just before the severe rainstorm with the use of vertically integrated liquid water content

Kohin Hirano, National Research Institute for Earth Science and Disaster Prevention (NIED), Japan

Partitioning the role of emissions and meteorology in driving pollutants concentrations: a data-driven approach based on eddy covariance

Sara Di Lonardo, Institute of Biometeorology - National Research Council (IBIMET-CNR) Via G. Caproni, 8 50145 - Firenze (Italy)

POSTER 16: BPH - Outdoor and indoor comfort, and link with health

Regional differences in the impacts of temperature extremes on cardiovascular health in the Czech Republic Jan Kysely, Institute of Atmospheric Physics AS CR, Czech Republic

OUTDOOR COMFORT STUDY IN DOWNTOWN RIO DE JANEIRO, BRAZI Patricia Regina Chaves Drach, UFRJ

Cool effects and thermal comforts of different landscape conditions in a Nigerian University Ifeoluwa Adebowale Balogun, Federal University of Technology, Akure, Nigeria

Features of the pedestrian thermal environment on a Campus University Léa Cristina Lucas de Souza, Universidade Federal de São Carlos, Brazil

Interrelationship of indoor radon concentration and meteorological parameters in Łódź (Central Poland) case study – preliminary results Agnieszka Podstawczyńska, University of Lodz, Poland

Influence of outdoor thermal environment on shaded or sunlit walking path selection of pedestrian Jin Ishii, Gifu University, Japan

Evaluation of some indices for urban heat stress found in the regional scale of Western Japan Yukitaka Ohashi, Okayama University of Science, Japan

Linking human-biometeorological thermal conditions with Köppen-Geiger climate classification – The Example of China Shi-Qi Yang, Albert-Ludwigs-University Freiburg, Germany

Thermal comfort and landscape design in university campus Inji Kenawy, The british university in Egypt, Egypt

Assessment of bioclimatic comfort in urban public places – an interdisciplinary approach Isabell Maras, RWTH Aachen University, Germany

Thermal Design of Plant Canopy Structure Based on Measurement Data of Thermal Environment of Premises Woods Atsumasa Yoshida, Osaka Prefecture University, Japan

Climatic Effects on Human Thermal Comfort: Preliminary Survey in Korea Sookuk Park, Jeju National University, Korea, Republic of (South Korea)

PEDESTRIAN USE OF SQUARES AND URBAN MICROCLIMATE IN VALPARAISO, CHILE CLAUDIO CARRASCO ALDUNATE, Escuela de Graduados, Facultad de Arquitectura. Escuela de Construcción Civil, Facultad de Ingeniería. Universidad de Valparaíso, Chile

THERMAL COMFORT CONDITIONS OF SHADED OUTDOOUR SPACES IN HOT AND DRY CLIMATE OF CONSTANTINE ALGERIGA

LOUAFI ep BELLARA SAMIRA, LABORATORY ABE, UNIVERSITY OF CONSTANTINE 3 ALGERIA, Algeria

Towards prediction of the meteorological effects on the incidence of acute aortic dissection type A. Sahar Sodoudi, Free University of Berlin, Germany

Subjective thermal comfort: a study in a Brazilian city park Carolina Lotufo Bueno-Bartholomei, UNESP - Universidade Estadual Paulista, Brazil

Assessment of impact of green cover percentage on the variation of microclimatic parameters and thermal comfort within urban open spaces from tropical city, Nagpur. Vidya Vinayak Ghuge, Visvesvaraya National Institute of Technology, India

Indoor comfort and air quality in spaces equipped with eco-ventilations systems Eusébio Zeferino Encarnação da Conceição, University of Algarve, Portugal

Thermal Comfort assessment of a Studio Classroom in Hot & Humid Climate Conditions Lillyrose Amirtham, Sathyabama University, India

EL RÉGIMEN BIOCLIMÁTICO MEDIO DE LA CIUDAD DE NATAL, BRASIL CON EL UNIVERSAL THERMAL CLIMATE INDEX (UTCI)

Malco Jeiel de Oliveira Alexandre, Federal Institute of Rio Grande do Norte, Brazil

Evaluating the Long-term Climatic changes and its impact on human thermal comfort in few rapidly growing cities of state of Gujarat, India

Anurag Kandya, Department of Civil Engineering, Indus University, Ahmedabad, India

SPATIOTEMPORAL ANALYSIS ON THE SQUATTER DEVELOPMENT: A CASE STUDY IN KAMPUNG BARU, KUALA LUMPUR Nor Suhada Azid, Universiti Teknologi Malaysia, Malaysia

URBAN HEAT ISLAND FIRST STATISTICAL ASSESSMENT BASED ON AN MESOSCALE CLIMATOLOGICAL NETWORK IN ARACAJU/BRAZIL

Max Wendell Batista Anjos, CEG/IGOT University of Lisboa, Portugal

The Lisbon's urban heat island patterns, rhythms and relationship with weather types: a decade of hourly temperature data António Manuel Saraiva Lopes, CEG/IGOT University of Lisboa, Portugal

Soil temperature trends in the suburban area of Zagreb Tanja Likso, Meteorological and Hydrological Service of Croatia, Croatia

Estimation of change dynamics of average and extremal annual values of air temperature of air ground layer of Gyumri Varduhi Margaryan, Yerevan State University, Armstatehydromet, Armenia

Urban Heat Island in Lodz Szymon Wilk, University of Lodz, Department of Meteorology and Climatology

Long-term Dynamics of the Urban 'Heat Island' in Moscow Mikhail A. Lokoshchenko, Lomonosov Moscow State University, Faculty of Geography, Russian Federation

Wind Condition Changing in Tomsk at the Beginning of XXI Century: Ecological Aspect Olga Nosyreva, National Research Tomsk State University, Russian Federation

Urban and Rural Temperature Trends in Proximity to Large US Cities: 1973-2013 Evan Sheppard Mallen, Georgia Institute of Technology Urban Climate Lab, United States of America

THE ASSESSMENT OF THERMAL AIR CONDITION IN TOMSK AND THE TRENDS IN ANTICYCLOGENESIS IN SIBERIA Irina Kuzhevskaia, Tomsk State University, Russian Federation

POSTER 18: NOMTM - Wind tunnel experiments, and flows and dispersion models

DIPLOS: Dispersion of Localised Releases in a Street Network Omduth Coceal, University of Reading, United Kingdom; National Centre for Atmospheric Science, Department of Meteorology, University of Reading, UK

Development of Urban Meteorological LES Model for thermal environment at city scale Ryosaku Ikeda, University of Tsukuba, Japan

Dispersion from short-duration ground level point gas source in idealised urban canopy Hana Chaloupecká, Institute of Thermomechanics AS CR, v. v. i., Czech Republic; Charles University in Prague, Faculty of Mathematics and Physics, Department of Meteorology and Environment Protection, Czech Republic

A parameterization method for evaluating wind pressure difference between buildings' windward and leeward Jie Wu, South China University of Technology, China, People's Republic of; Guangxi University, China, People's Republic of

An Experimental Study on Exploring the Possibility of Applying Artificial Light as Radiation in Wind Tunnel Ye Lin, National Institute for Environmental Studies, Japan, Japan

Influence of buildings on the urban atmosphere: need to couple CFD simulations with a building model Noëlie Daviau-Pellegrin, CEREA, France

Comparison of surface observation data and simulations of atmospheric flow using CFD model: a case study of Seolleung area in Seoul, South Korea

Ho-Jin Yang, Weather Information Service Engine project of KMA, Korea, Republic of (South Korea)

CFD analysis of urban wind environment with actual inflow obtained by Doppler lidar measurement Shintaro KOBAYASHI, University of Tokyo, Japan

Numerical Investigation of Turbulent Flow near Quiescent Liquid Surface Bruno Furieri, UFES, Brazil

Understanding and Eliminating Instabilities and 'Rogue Trajectories' in Lagrangian Stochastic Particle Dispersion Models Brian N. Bailey, University of Utah, USA

An updated evaluation guideline for prognostic microscale wind field models. David Grawe, Meteorological Institute, cen, University of Hamburg, Germany

POSTER 19: CCMA - UHI mitigation strategies based on vegetation

Optimizing urban irrigation schemes for a trade-off between energy and water consumption Zhihua Wang, Arizona State University, United States of America

Does urban vegetation enhance carbon sequestration? Erik Velasco, Singapore-MIT Alliance for Research and Technology, Singapore

Characterization of the behavior of watered urban materials

Martin Hendel, Paris City Hall, Water and Sanitation Department, France; ²Univ Paris Diderot, Paris Sorbonne Cité, MSC, UMR 7057, CNRS; ³Université Paris Est, EIVP, Lab'Urba, EA 3482

Research of Water Body in Improving Outdoor Thermal Environment in Hot-humid Region, China—The Example of Lingnan Garden

Sihan XUE, South China University of Technology, China

Analysing green roof and albedo effects on thermal urban climate in support of climate adaptation to summer heat conditions Meinolf Kossmann, Deutscher Wetterdienst, Germany

The influence of different tree species on outdoor thermal comfort in the tropical urban environment Ling KONG, The Chinese University of Hong Kong, Hong Kong S.A.R. (China)

Towards "green" streets – climate change adaptation and mitigation using the suburban street; a case study from Western Sydney.

Libby Gallagher, University of Sydney, Australia

Trait-based species selection for urban forests under climate change scenario Seyed Mohammad Jafari[,] School of Biology, University of Tehran, Iran, Islamic Republic of

The impact of urban growth and mitigation measures on urban temperatures in Hamburg, Germany David Grawe, University of Hamburg, Germany

Examination of the interrelation between woody vegetation and urban rainwater management: stormwater runoff decrease as ecosystem service of trees in Szeged (Hungary) Agnes Gulyas, University of Szeged, Hungary

Evaluation of greening and highly reflective materials from three perspectives Saori Yumino, Tohoku University, Japan

Evaluation of cool/green roof in mitigating urban heat island in a tropical city, Singapore Xian-Xiang Li, Singapore-MIT Alliance for Research and Technology, Singapore

POSTER 20: BPH/ID - Human perception of comfort, and multicriteria evaluation

Can the comfort index physiological equivalent temperature assess thermal pollution in Mexico City? Monica Ballinas, Instituto de Ecología, UNAM, Mexico; Centro de Ciencias de la Atmósfera, UNAM

CALIBRATION OF COMFORT PET INDEX (°C) USING DECISION TREE

Lutz Katzschner, University of Kassel - Universität Kassel

Urban design adaptation strategies for public engagement and thermal ambiences control Marina Popovic, Ecole Nationale Supérieure d'Architecture de Nantes, France

Modified physiologically equivalent temperature for applications in urban climate studies Yung-Chang Chen, Albert-Ludwigs Freiburg, Germany

POSTER 21: ID - Environmental scholarship and collaborations

Concepts of Environmental Education in Basic Education Schools of Technical Courses in Mechanical and Loads Transportation in the Campus Santos Dumont: a conscious student? A critical analysis through the pedagogical practices Lívia Ávila, Instituto Federal de Ciência, Educação e Tecnologia Sudeste de Minas Gerais, Campus Santos Dumont, Brazil

Development of climate adaptation measures as a participative process involving citizens in a neighbourhood in Berlin, Germany

Daniel Fenner, Technische Universität Berlin, Germany

Design thinking and urban planning projects: towards new climatic services for climate change adaptation? Morgane Colombert, Université Paris Est, Ecole des Ingénieurs de la Ville de Paris (EIVP), Lab'Urba, EA 3482, France

POSTER 22: NOMTM - Field campaigns, new sensors and methods

A Wavelet-based, Low-cost Method for Massive On-site Diurnal Urban Climate Observation Using Three Globe Thermometers Shang Wang, University of Hong Kong, Hong Kong S.A.R. (China)

Experimental Study on the Suitability of Acrylic and Copper Globe Thermometer for Diurnal Outdoor Mean Radiant Temperature Measurement

Shang Wang, University of Hong Kong, Hong Kong S.A.R. (China)

Measurement of roughness parameters over urban heterogeneous canopy Hirofumi Sugawara, National Defense Academy, Japan

MOBO – An Experimental Network for Urban Heat Island Analysis in a Green District of the Middle-East Miguel Martin, Masdar Institute of Science and Technology, United Arab Emirates

Two EC sites on one urban mast: what can we learn? Curtis Wood, Finnish Meteorological institute, Finland

Challenges and results from conducting eddy covariance observations in areas of tall buildings Jianguo Tan, Shanghai Institute of Meteorological Science

Distribution of Aerodynamic Roughness Based on Land Cover and DEM- A Case Study in Shanghai, China jian guo Tan, Shanghai Meteorological Science Research Institute, China, People's Republic of

Comparison on Different Methods to estimate Aerodynamic Parameters in Urban Areas Jianguo Tan, Shanghai Meteorology Science Institute, China, People's Republic of

Analysis of Suspect Meteorological Data from Quality Control Process in Urban Area Tan Jian-guo, Shanghai Meteorological Bureau, China, People's Republic of

Investigation of temperature inversions in different conditions in Tomsk according to MTP-5 temperature profiler and the mesoscale Weather Research and Forecasting (WRF) model Anna Sergeevna Akhmetshina, National Research Tomsk State University, Russian Federation

Characterising internal boundary layers forming over an idealised urban surface based on air temperature observations with high spatio-temporal resolution

Atsushi Inagaki, Tokyo Institute of Technology, Japan

Estimation of roughness parameters of urban area using wind profile data obtained by a Doppler lidar system Toshinori Aoyagi, Meteorological Research Institute, Japan

Monitoring of atmospheric turbidity and cloud above Tokyo using ground based network cameras Daiki Hashikita, Chiba Institute of Technology, Japan

Microclimatology of Tropical University Campus: In-situ measurement and GIS-based analysis SITI WAN SYAHIDAH WAN AHMAD, UNIVERSITI TEKNOLOGI MALAYSIA, Malaysia

Status and Future of the WISE Urban Meteorological Observation Network Jung-Hoon Chae, Weather Information Service Engine, Korea, Republic of (South Korea)

Cooling mechanism of leaves of urban vegetation Tsuyoshi Honjo, Chiba University, Japan

Estimation of effective roughness length for suburban area of the city of Zagreb Tanja Likso, Meteorological and Hydrological Service of Croatia, Croatia

Ceilometer based retrieval of Shanghai's boundary layer height

Jianguo Tan, Shanghai Institute of Meteorological Science, Shanghai Meteorological Bureau, People's Republic of China

A study on data analysis of densely observed climate variables in Seoul Chaeyeon Yi, Weather Information Service Engine project of KMA, Korea, Republic of (South Korea)

A three years long fieldwork experiment to monitor the role of vegetation on the urban climate of the city of Strasbourg, France

Jerome COLIN, ICube Laboratory, UMR 7357 University of Strasbourg - CNRS - INSA Strasbourg, France

Development of a Dense Climate Monitoring Network for the Georgia Institute of Technology Evan Sheppard Mallen, Georgia Institute of Technology Urban Climate Lab, United States of America

Examination of empirical parameter in the thermal image velocimetry

Atsushi Inagaki, Tokyo Institute of Technology, Japan

A new Sky Arrow ERA light aircraft combining LIDAR and air quality payloads for atmospheric monitoring Daniele Gasbarra, National Research Council, Institute for Agricultural and Forestry Systems in the Mediterranean (Cnr-Isafom)

3D tree architecture modeling from laser scanning for urban microclimate study Tania LANDES, ICube Laboratory UMR 7357, University of Strasbourg – CNRS – INSA Strasbourg, France

Bulk Transfer Relations for the Roughness Sublayer Applied at a Sub-urban Area of Zagreb Kreso Pandzic, Meteorological and Hydrological Service, Croatia

Mapping urban ecosystem structure and function using hyperspectral imagery and airborne lidar Michael Alonzo, University of California, Santa Barbara, United States of America

Investigation of urban air temperature and humidity patterns during extreme heat conditions using satellite-derived data Leiqiu Hu, National Center for Atmospheric Research, United States of America

Low cost air pollution sensors: New perspectives for the measurement of individual exposure? Malika Madelin, University Paris Diderot, Sorbonne Paris Cité - UMR CNRS PRODIG, Paris, France

A development of mobile monitoring system for urban climatology Toshiaki Ichinose, National Institute for Environmental Studies / Nagoya University, Japan

Derivation of an urban materials spectral library through emittance and reflectance spectroscopy Simone Kotthaus, University of Reading, Department of Meteorology, United Kingdom

POSTER 23: UDC - Building climate and energy consumption

Study on the effect of morphologic features and material properties on microclimatic development and pedestrian comfort Hideki Takebayashi, Kobe University, Japan

Urban Microclimatic Improvement Effects to Building Blocks Energy Consumption by the Use of Energy Simulation STAMATIS ZORAS, Democritus University of Thrace, Greece

A coupled modelling approach to quantify the microclimatic effects of green infrastructure on residential buildings Teresa Zölch, TU München, Germany

Simulation of indoor climate with façade dynamics & building – atmosphere interaction Helge Simon, Environmental Modelling Group, Germany

Reconceptualization of Climate Classifications and Climate Analysis Tools to Support Evaporative Building Cooling Strategies in the Hot Humid Tropics

Claudio Aurelio Diaz, University of New South Wales, Australia

Urban greening and cool surfaces: the effectiveness of climate change adaptation strategies within the context of Budapest Csilla V Gal, Illinois Institute of Technology, United States of America

Studying the interaction of iranian traditional architecture with nature through Sustainable Development mehdi frotan, iran, Iran, Islamic Republic of

Development to the forecasting system of indoor environment using atmospheric condition of building scale Ji-Sun Lee, National Institute of Meteorological Research (NIMR)/KMA, Korea, Republic of (South Korea

Thermal comfort in housing under solar obstruction derived from high building in urban renovation areas. LUZ ALICIA CARDENAS-JIRON, UNIIVERSITY OF CHILE, Chile Potential of solar energy and the effects on the urban heat island Dominika Kassai-Szoó, Hungary, Hungary

Comparative Study on Traditional and Modern Urban Textures: Form, Energy and Climate Yuan HUANG, CISDI Group, China, People's Republic of

Comparison of air temperature sensitivity of electric power consumption between Tokyo and Hokkaido region Takahiro Mitsukuri, Kansai University, Japan

Modeling reduction of Urban Heat Island effect by improving radiative properties of buildings and districts Konrad Andre, ZAMG, Zentralanstalt für Meteorologie und Geodynamik, Austria

POSTER 24: NOMTM - Mesoscale and NWP models

The impact of vertical resolution in mesoscale model AROME forecasting of radiation fog Alexandre PHILIP, CNRM-GAME, France

Numerical study on urban wind environment and thermal climate of cities in cold area with snow cover Taotao Shui, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Harbin

A high-resolution mesoscale meteorological model for investigating the weather phenomena over a limited urbanized area Alexander V. Starchenko, Tomsk State University, Russian Federation

Comparison of land cover and land use data for urban climate modelling in Southeast Asian cities – A case study of Johor Bahru

Jochen Kraus, Univeristy of Graz, Austria

Investigation of 3D structure of urban heat island of Moscow city with application of microwave temperature sounding and high-resolution regional modelling with data assimilation

Mikhail Varentsov, Lomonosov Moscow State University, Faculty of geography, Depatment of meteorology and climatology, Moscow, Russia; A.M. Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences, Moscow, Russia

POSTER 25: NOMTM - Urban canopy parameterizations

A multi-model and -namelist ensemble for a tropical urban energy balanc

Matthias Demuzere, KU Leuven, Department of Earth and Environmental Sciences, Celestijnenlaan 200E, 3001 Leuven, Belgium; Department of Geography, National University of Singapore (NUS), Singapore;

Simulation of urban fluxes with a 3D canopy model Pierre Philippe Kastendeuch, Université de Strasbourg (UDS), France

Urban Climate Simulations of Dalian Based On WRF Comparing Different Urban Parameterization Schemes Fei Guo, dalian university of tech, China, People's Republic of

Development of a new 1D urban canopy model: coherences between surface parameterizations Nadège Blond, CNRS, Laboratoire Image Ville Environnement, France; Université de Strasbourg, Laboratoire Image Ville Environnement, France

Model developments in TERRA_URB, the upcoming standard urban parametrization of the atmospheric numerical model COSMO(-CLM)

Hendrik Wouters, KU Leuven, Belgium

The ability of mesoscale climate model COSMO-CLM with the Double Canyon urban canopy scheme to simulate the urban heat island in Berlin

Sahar Sodoudi, Freie Universität Berlin, Germany

Fast urban heat island modeling Julien Le Bras, Météo France, France

Exploring the impact of alternative urban design scenarios on microclimate using QUIC-EnvSim Eric R. Pardyjak, University of Utah, United States of America

Visualization and Exploration of Urban Microclimate Simulations using the QUIC EnvSim GPU Framework Peter Willemsen, University of Minnesota Duluth, United States of America

MODELING PARAMETERS AND REMOTE SENSING ACQUISITION OF URBAN CANOPIES Lucas LANDIER, CASBIO, Paul Sabatier University, France

POSTER 26: TUKUP - Indicators, climate maps, and decision support tools

Sensitivity of the TEB model to building parameters, urban planning and spatial distributions of natural areas in an urban area. The Paris area example during the 2003 heat wave. Renaud LESTRINGANT, CNRS - Météo France, France

Analysis of urban flooding from a meteorological perspective applied to two temperate climate cities in Argentina Alicia M. Campo, UNIVERSIDAD NACIONAL DEL SUR, Argentine Republic; National Scientific and Technical Research Council

Study on future urban form and land use pattern considering urban warming and depopulation -Scenario Making by using concept of potential natural vegetation-Makoto Yokoyama, Hiroshima University, Japan

Estimation of human-biometeorological conditions in south west Germany for the assessment of mitigation and adaptation potential

Andreas Matzarakis, Albert-Ludwigs University Freiburg, Germany

Knowledge and technological transfer: a user-friendly multi-model platform for consulting services to simulate the evolution of the city and the urban climate over a century, from a prototype developed within the multidisciplinary project ACCLIMAT Béatrice Pouponneau, Météo-France, France

A Climate Adaption Concept for the Urban Heat Island Isabell Maras, RWTH Aachen University, Germany

The utilization of first derivatives and violinplots of meteorological parameters for the evaluation of thermal behavior of small urban sites.

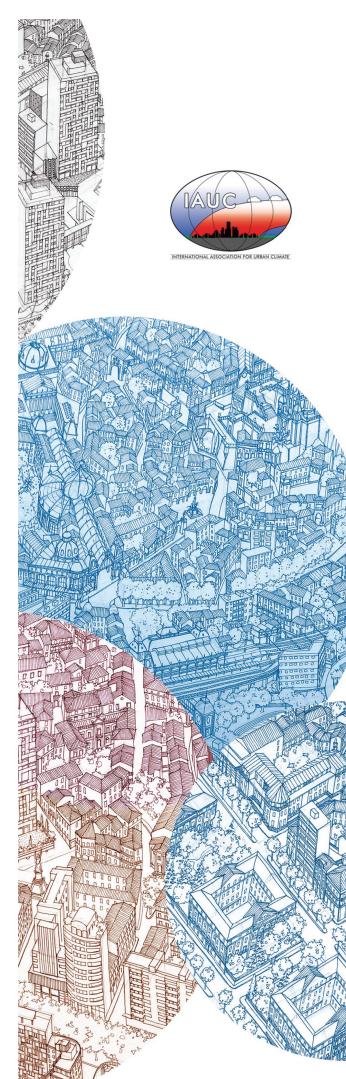
Andreas Matzarakis, Albert-Ludiwgs-University Freiburg, Germany

Urban climate and heat-stress patterns in Berlin, Germany Steffen Lauf, Technische Universität Berlin, Germany

WAsP software - application for data analysis of wind over a city Alessandra Rodrigues Prata-Shimomura, Universidade de São Paulo/Brazil

Urban climate and materials properties: What do we know about this field? How can we use this knowledge for urban planning? How can we adapt and better build our cities for tomorrow? Guilhem Tomasset, LISST/CNRS, France

Countermeasure guidelines and evaluation tools against heat island phenomena for several cities in Japan and East Asia Shinji Yoshida, University of Fukui, Japan















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