

Curriculum Vitae

Name: Fredrik Lindberg

Date of birth: 7 August, 1974

Citizenship: Swedish

Current position: Researcher, Göteborg Urban Climate Group, Department of Earth Sciences, University of Gothenburg

University affiliation: University of Gothenburg, Department of Earth Sciences, Guldhedsgatan 5, 40530, Göteborg, Sweden Tel +46 (0)31 786 2606, e-mail: fredrik.lindberg@gvc.gu.se

Education

Doctor of Philosophy, Physical Geography, 2002-2007. Department of Earth Sciences, University of Gothenburg. Dissertation date: September 25, 2007. Dissertation title: "*Spatial variation of the urban climate and its influence on thermal comfort and behaviour*". Supervisors: Professor Ingegård Eliasson (main) and Professor Sofia Thorsson (co).

Masters of Science in Physical Geography, 2000-2002. Dissertation title: "*The covariation between building intensity and intra urban air temperature*", Department of Earth Sciences, University of Gothenburg.

Master of Sciences in Geography, 1998-2000. Dissertation title: "*An attempt to measure the rate of stone uplift for an area located in Bollebygds community, SW Sweden*", Department of Earth Sciences, University of Gothenburg.

Bachelor of Sciences in Geography, 1996-1998. Department of Earth Sciences, University of Gothenburg.

Academic degree

Associate Professor (docent) in Physical Geography (January 2017)

Post-doctoral visit

King's College London, Geography, Environmental Monitoring and Modelling group, Professor Sue Grimmond (2009-2010)

Current post, period of appointment, time for research in the position

Researcher, Department of Earth Sciences, University of Gothenburg, 2011-, 70% time spent in research

Teaching expertise

- Teacher of undergraduate and graduate courses at Department of Earth Science (appr. 40% activity level), University of Gothenburg, Sweden (2015-)

- Responsible for the development of the Master program in Geography at University of Gothenburg, Sweden (2014-)

- Teacher of undergraduate and graduate courses at Department of Earth Science (10% activity level), University of Gothenburg, Sweden (2013-2015)

- Teacher of undergraduate and graduate courses at Department of Earth Science (30% activity level), University of Gothenburg, Sweden (2010-2013)

- Development of new web-based courses in GIS, Department of Earth Science, University of Gothenburg, Sweden (2009)

- Assistant of the graduate course "Micro- and local Climatology - theory and field measurements, 7.5 ECT", Department of Earth Science, University of Gothenburg, Sweden (2009)

- Invited lecturer on “Principles of urban climatology” for a MSc course in Architectural Engineering (Environmental Design) for the University of Bath, United Kingdom (2010)
- Lecturer (20%) of undergraduate human geography GIS courses, University of Gothenburg, Sweden (2008)
- Teaching assistant of undergraduate physical geography and geography courses (20% activity level), University of Gothenburg, Sweden (2002-2007).

Previous positions and periods of appointment

- Researcher, Physical Geography, Department of Earth Science, University of Gothenburg, Sweden (2011-)
- Consultant at Tyréns (10%), 2014
- Post-doctoral fellow, King’s College London, Geography, Environmental Monitoring and Modelling group (2009-2010)
- Part-time lecturer, Department of Human and Economic Geography, University of Gothenburg, Sweden (2008)
- GIS-engineer, City Planning Authority, City of Göteborg, Sweden (2008)
- PhD candidate, Physical Geography, Department of Earth Science, University of Gothenburg, Sweden (2002-2007)

Awards and special commissions

- Yearly GIS-award 2008 from ‘GIS i Väst’, 25 TSEK
- Stefan Stenlunds GIS-award 2008 from Lantmäteriet, ESRI S-GROUP and LINFO Norrbotten, 17 TSEK

Other academic duties

- Minor Field Studies officer at the Department of Earth Science (2002-2007)
- Webmaster for the Göteborg Urban Climate Group website (2002-)
- Responsible of software licensing at the Department of Earth Science (2012-)
- Post graduate education board at the Department of Earth Science (2014-2017)
- Advisory board for IT services at Faculty of Natural Sciences (2013-2017)
- Program coordinator of the Master program in Geography at the Department of Earth Science (2014-)
- Responsible of climate stations at the Department of Earth Science (2012-2015)
- Shared head (with Sofia Thorsson) of Göteborg Urban Climate Group at University of Gothenburg (2020-)
- Evaluation board on PhD defense of Aifang Chen (University of Gothenburg) (June, 2020)

Supervision

Projects and bachelor theses

Approximately 50-80 project supervisions in various courses and bachelor thesis within University of Gothenburg (GU) and King’s College London

Master theses

Kristin Blinge, 2020, GU; Ruben Hallberg, 2020, GU; Oskar Bäcklin, 2019, GU; Timmy Nilsson, 2019, GU; Norea Hellberg, 2019, GU; Filip Olsson, 2019, GU; Deria Abda Amin, 2017, GU; Sara Johansson, 2017, GU; Gunnar Palm, 2017, GU; Bengt Myrberg, 2016/17, GU; Charles Hansson, 2014/15, GU; Hanna Hassberg, 2014/15, Lund University (LU)/GU; Niklas Krave, 2014, LU/GU; Natalia Kuska, 2013, GU; Lars Pettersson, 2011, LU/GU; Annika Larsson, 2011, SLU/GU; Deepak Jeswani, 2008, GU; Jesper Björklund, 2008, GU

PhD candidates, postdoctoral fellows and visiting researcher

Jeremy Bernard, Marie Skłodowska-Curie Individual Fellowship, 2020-, GU, (Main-supervisor)
Oskar Bäcklin, Ph.D. student, 2020-, GU, (Co-supervisor)

Hampus Luning, Ph.D. student, 2019-, GU/Sahlgrenska, (Co-supervisor)
 Zeng Liyue, visiting Ph.D. student, 2018-2019, Chongqing University, P. R. China (Main-supervisor)
 Nils Wallenberg, Ph.D. student, 2018-, GU, (Main-supervisor)
 Frans Olofson, Postdoctoral fellow, 2015-2018, GU, (Main-supervisor)
 Jenny Kingberg, Postdoctoral fellow, 2014-2016, GU, (Co-supervisor)
 Nithiyanandam Yogeswaran, visiting PhD-student, 2014, Hong Kong Polytechnic University, (Main-supervisor)
 Yumei Hu, Ph.D. student, 2011-2018, GU, (Co-supervisor)
 Kevin Lau, Postdoctoral fellow, 2013-2014, GU, (Main-supervisor)
 Shiho Onomura, Ph.D, 2011-2015, GU, (Co-supervisor)
 Janina Konarska, Ph.D. 2011-2015, GU, (Co-supervisor)

Scientific funding

- ***Transformation towards green and blue cities: Conflicts between the sustainable development goals, TRANSSAFE*** (FORMAS, 2020-2022 TSEK 3000), Main Applicant: Magnus Evander (UU), Co-applicants: Fredrik Lindberg and others
- ***Multifunctional blue-green infrastructure - optimizing socio-cultural and environmental aspects for sustainable urban development*** (FORMAS, 2022-2023, TSEK 7985), Main applicant: Sofia Thorsson, Co-applicants: Fredrik Lindberg, David Rayner, Jutta Schade, Matthias Borris, Özüm Durgun, Mattias Sandberg, Janina Konarska
- ***Development of a heat warning system for outdoor sport events*** (In-house (Sahlgrenska Academy), 2019-2020 TSEK 200), Main Applicant: Fredrik Lindberg (UG)
- ***The influence of warm weather and outdoor-environment design on preschoolers' physical activities and thermal comfort*** (FORMAS, 2019-2022 TSEK 3000), Main Applicant: Fredrik Lindberg (UG)
- ***Visualising and modelling urban air quality - influence of vegetation, building morphology and traffic emissions*** (FORMAS, 2018-2021 TSEK 8992), Main Applicant: Håkan Pleijel (UG), Co-applicants: Fredrik Lindberg and others
- ***URBANFLUXES - URBan ANthrrogenic heat FLUX from Earth observation Satellites*** (Horizon 2020 - Research and Innovation Programme, 2015-2017, Total/GU T€ 2687/319), Main Applicant: Nektarios Chrysoulakis (FORTH), WP-leaders: Fredrik Lindberg and others
- ***CLIMPLAN – A fast responsive, modelling system for urban climate sensitive planning applications*** (FORMAS, 2013-2018, TSEK 4787, Young researcher grant), Main applicant: Fredrik Lindberg
- ***Efficient use of land and energy in Dar es Salaam, Tanzania*** (SIDA/VR, 2013-2015, TSEK 3000), Main applicant: Erik Johansson, Co-applicants: Fredrik Lindberg, Sofia Thorsson, Maria Rasmusen
- ***Valuation of ecosystem services provided by urban greenery*** (FORMAS, 2014-2016, TSEK 8605), Main applicant: Sofia Thorsson, Co-applicants: Fredrik Lindberg, Bengt Gunnarsson, Yvonne Andersson-Sköld, Marcus Hedblom, Åsa Ode Sang, Igor Knez
- ***Infrastrukturnära vegetation*** (Trafikverket, 2012, TSEK 100), Main applicant: Fredrik Lindberg, Co-applicant: Sofia Thorsson
- ***Inventory of urban vegetation using LIDAR technology*** (Mistra Urban Futures, 2012, TSEK 198), Main applicant: Sofia Thorsson, Co-applicant: Fredrik Lindberg
- ***SOLEN – integration of solar energy calculations in the planning process*** (City of Göteborg, 2012, 150 TSEK), Main applicant: Fredrik Lindberg
- ***Solar Energy from Building Envelopes - SEBE*** (VINNOVA, 2011, 735 TSEK), Main applicant: Per Jonsson, Co-applicants: Fredrik Lindberg, Tomas Landelius, Bengt Stridh, Joakim Jeppsson
- ***Adapting cities to climate induced risks - a coordinated approach*** (FORMAS, 2011-2013, 7000 TSEK), Main applicant: Sofia Thorsson, Co-applicants: Yvonne Andersson-Sköld, Anna Jonsson, Sara Janhäll, Fredrik Lindberg, Mira Ovuka-Andersson and Ulf Moback

- **Potential impact of climate trends and weather extremes on outdoor thermal comfort in European cities - implications for sustainable urban design** (UrbanNet/EU, 2010-2013, 7000 TSEK), Main applicant: Sofia Thorsson, Co-applicants: Ana Monteiro, Lutz Katzschner, Fredrik Lindberg and David Rayner
- **Potential photovoltaic energy production on roof structures**, (SolElprogrammet/Göteborg energy/Länsstyrelsen, 2011, 528 TSEK), Main applicant: Per Jonsson, Co-applicant: Fredrik Lindberg
- **The influence of vegetation and green spaces on human thermal comfort in urban areas – a quantitative approach**. Postdoctoral Fellowship (FORMAS, 2009-2010, 390 TSEK), Main applicant: Fredrik Lindberg
- Smaller financial support has been provided from the following scholarships summing up to 101 TSEK: SSAG - the Swedish Society of Anthropology and Geography), the Sven Lindqvist fund, the Adlerbertska research fund, the Hierta-Retzius fund and the Swedish Cartographic Society.

Review assignments for scientific journals

Transactions in GIS; Building Information Science; Building and Environment; Climate Research; Landscape and Urban Planning; Boundary Layer Climates; Meteorologischen Zeitschrift; Advances in Meteorology; Geografica Polonica; Urban Geography; Urban Climate (*Certificate of Excellence in Reviewing, 2013*); Journal of Atmospheric and Oceanic Technology; International Journal of Climatology; Theoretical and Applied Climatology; International Journal of Biometeorology; Geophysical Research Letters; Agricultural and Forest Meteorology; Environment and Planning B: Planning and Design; Sustainable Cities and Society; Computers, Environment and Urban Systems; Remote Sensing; Science of the Total Environment, Building Research & Information, Geoscientific Model Development, Nature Climate Change

Review assignments for books

Urban Climates, Ch. 5: "Radiation" by T.R. Oke, G. Mills, A. Christen, J. Voogt. 2014.

Scientific meetings and conferences

- Symposium on Challenges in Applied Human Biometeorology, March, 2020, Freiburg, Germany – oral presentation
- The 10th International Conference on Urban Climate (ICUC10), New York, US, 2018 - oral presentation and workshop organizer
- AGILE 2018, 21st Conference on Geo-information science, Lund 12-15 June, Sweden – workshop organizer "Introduction to OSGeo and Python programming using PyQGIS"
- International Conference for Free and Open Source Software for Geospatial (FOSS4G), Boston, US, 2017 - oral presentation
- 21th International Congress of Biometeorology, September, 2017, Durham, UK - oral presentation
- The 9th International Conference on Urban Climate (ICUC9), Toulouse, France, 2015 - oral and poster presentation
- The 1st International QGIS Conference for Users, Educators and Developers, 18-19 May, Nodebo, Denmark
- Position 2015, 17-19 March 2015, Stockholm (Sweden)
- Symposium "Towards integrated modelling of urban systems" 15-17 October 2014, Lyon (France)
- The 8th International Conference on Urban Climate (ICUC8), Dublin, Ireland, 2012 - member of the international scientific committee, session chair, oral and poster presentation
- The 4th GAC conference on Atmospheric Science, May 2010 - oral presentation
- NCAS Urban Meteorology Workshop, Urban roughness sub layers - from measurements and CFD to predictive models, March 2009, University of Reading, UK

- Workshop on "The potential impact of climate change on heat stress in different built structures and cities across Europe". Göteborg, Sweden, 2009 - co-organizer, oral presentation
- The 7th International Conference on Urban Climate (ICUC7), Yokohama, Japan, 2009 - member of the international scientific committee, session chair, oral and poster presentation
- Conference of Free and Open Source Software for Geospatial (FOSS4G), Cape Town, South Africa, 2008
- FORMAS conference "Urban public spaces", Göteborg, Sweden, 2007 - organizer, oral presentation
- The 6th International Conference on Urban Climate (ICUC6), Göteborg, Sweden, 2006 - organizer, oral and poster presentation
- Nordic GIS-conference, 2004, Göteborg, Sweden - oral presentation
- The 5th International Conference on Urban Climate (ICUC5), Lodz, Poland, 2003 - oral presentation

Selection of invited talks

- URBISPHERE online seminar on urban form and function (2020)
- Technische Universität Berlin, Center for Innovation and Science on Building Greening, Germany (2018)
- Technische Universität Berlin, Department of Ecology, Germany (2013)
- Wageningen University and Research Centre, Meteorology and Air Quality Group, Netherlands (2012)
- University of Kassel, Environmental Meteorology, Germany (2011)
- University of Reading, Department of Meteorology, United Kingdom (2011)

Selection of experience of communicating results with stakeholders/end users

- Klimatsmart – Hur är med det? Public online web-seminars organised by Science Faculty, GU, 2020.
- Participated in national radio on the Swedish Radio (SR), Vetenskapsradion Klotet 2020.
- Participated in regional radio on the Swedish Radio (SR), 2018.
- Attended a workshop in Dar es Salaam on energy efficient and climate sensitive planning, 2016.
- Participated in regional afternoon radio show "Eftermiddag i P4" on the Swedish Radio (SR), 2015.
- Participated in regional morning radio show "P4-morgon" on the Swedish Radio (SR), 2015.
- Two Stakeholder workshops in conjunction to FORMAS-funded project "Adapting cities to climate induced risks - a coordinated approach", 2011-2013.
- Newspaper article about urban climate and health in Göteborgs Posten, 2014-05-10.
- Participated in the regional news concerning Solar energy in Göteborg, Swedish Television (SVT), 2011.
- Participation in Workshop within Mistra Urban Futures "Climate adapted city planning", November 2010
- "What lurks in the darkness – the use of a shadow casting algorithm in urban climatology". Presentation at the "GIS i Väst"-meeting, 2008
- Participated in "Eftersnack" concerning local climate in Göteborg, Swedish Television (SVT), 2008.
- Participated and interviewed in the news program on the Swedish Radio (SR), Norrland, 2005.
- Participated and interviewed in the news program on TV4 Norrland, 2005.
- Newspaper article about the local climate in Luleå in Norrländska Socialdemokraten, 2005.
- Participated and interviewed in the news program at the Swedish Radio (SR), Göteborg, 2008.

- Participated and arranged working symposium “Stadens offentliga rum” in Göteborg, 2007 (FORMAS).

Board assignments and non-academic work

- Board member in GISväst, (2013-2019)
- Board member in QGISSweden (2016-)
- Scientific consultant at, Tyréns (2013-2014) including:
 - o *WWW.HEDEN.GO:TEBORG*, (<http://www.tyrens.se/sv/Heden/WWWHEDENGOTEBORG/>)
 - o *Bioclimatic Design Toolkit* – Tyréns UK.
 - o *Tyréns Solplan* – A tool to estimate and visualize potential sun energy production on building roofs
- White architects, Planning proposal around Central station in Göteborg, Sweden (2012)

Professional Memberships

- International Association of Urban Climate (IAUC), Swedish Cartographic Society, GIS-Väst, The Swedish Society for Anthropology and Geography (SSAG), QGIS Sweden (board member), Geografiska föreningen i Göteborg

Publications

In peer-review journals:

Olvmo M, Holmer B, Thorsson S, Reese H and **Lindberg F** (2020) Sub-arctic palsa degradation and the role of climatic drivers in the largest coherent palsa mire complex in Sweden (Vissátvuopmi), 1955–2016. *Sci Rep* 10, 8937. <https://doi.org/10.1038/s41598-020-65719-1>

Thorsson, S, Rayner D, Palm G, **Lindberg F**, Carlström E, Börjesson M, Nilson F, Khorram-Manesh A, and Holmer B. (2020) "Is Physiological Equivalent Temperature (Pet) a Superior Screening Tool for Heat Stress Risk Than Wet-Bulb Globe Temperature (Wbgt) Index? Eight Years of Data from the Gothenburg Half Marathon." *British Journal of Sports Medicine*. <https://doi.org/10.1136/bjsports-2019-100632>.

Lindberg, F., K. F. G. Olofson, T. Sun, C. S. B. Grimmond, and C. Feigenwinter. "Urban Storage Heat Flux Variability Explored Using Satellite, Meteorological and Geodata." *Theoretical and Applied Climatology* (2020). <https://doi.org/10.1007/s00704-020-03189-1>.

Wallenberg, Nils, **Lindberg F**, Holmer B, and Thorsson S. (2020) "The Influence of Anisotropic Diffuse Shortwave Radiation on Mean Radiant Temperature in Outdoor Urban Environments." *Urban Climate* 31 (2020). <https://doi.org/10.1016/j.uclim.2020.100589>.

Khorram-Manesh A, Löf T, Börjesson M, Nilson F, Thorsson S, **Lindberg F**, Carlström E. (2020) Profiling Collapsing Half Marathon Runners—Emerging Risk Factors: Results from Gothenburg Half Marathon. *Sports*. 2020; 8(1):2.

Aminipouri M, Rayner D, **Lindberg F**, Thorsson S, Knudby AJ, Zickfeld K, et al. (2019) Urban tree planting to maintain outdoor thermal comfort under climate change: The case of Vancouver's local climate zones. *Building and Environment*. 2019; 158:226-36.

Ching, J., D. Aliaga, G. Mills, V. Masson, L. See, M. Neophytou, A. Middel, A. Baklanov, C. Ren, E. Ng, J. Fung, M. Wong, Y. Huang, A. Martilli, O. Brousse, I. Stewart, X. Zhang, A. Shehata, S. Miao, X. Wang, W. Wang, Y. Yamagata, D. Duarte, Y. Li, J. Feddema, B. Bechtel, J. Hidalgo, Y. Roustan, Y. Kim, H. Simon, T. Kropp, M. Bruse, **F. Lindberg**, S. Grimmond, M. Demuzure, F. Chen, C. Li, J. Gonzales-Cruz, B. Bornstein, Q. He, P. Tzu, A. Hanna, E. Erell, N. Tapper, R. K. Mall & D. Niyogi (2019) Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. *Urban Climate*, 28.

Carlström, E., Börjesson, M., Palm, G., Thorsson, S., **Lindberg, F.**, Holmer, B., Berner, A., Örnings, P., Luning, H., Nilson, F., Gelang, C., Khorram-Manesh, A., (2019) Medical emergencies during a half marathon contest – the influence of weather. : *International Journal of Sports Medicine*. In Press.

- Oswald, S. M., M. Revesz, H. Trimmel, P. Weihs, S. Zamini, A. Schneider, M. Peyerl, S. Krispel, H. E. Rieder, E. Mursch-Radlgruber & **F. Lindberg** (2018) Coupling of urban energy balance model with 3-D radiation model to derive human thermal (dis)comfort. *International Journal of Biometeorology*. DOI 10.1007/s00484-018-1642-z
- Nilson, F., **F. Lindberg**, G. Palm, L. Lundgren, D. Rayner, M. Börjesson, S. Thorsson, A. Khorram-Manesh & E. Carlström (2018) Can participants predict where ambulance-requiring cases occur at a half marathon? *Scandinavian Journal of Medicine & Science in Sports*, 28, 2760-2766.
- Chrysoulakis N., Grimmond C.S.B, Feigenwinter C, **Lindberg F**, Gastellu-Etchegorry J., Marconcini M., Mitraka Z., Stagakis S., Crawford B., Olofson F., L. Landier L., Morrison W. & Parlow E. (2018) Urban energy exchanges monitoring from space. *Scientific Reports*, 8, 11498.
- Feigenwinter, C., Vogt, R., Parlow, E., **Lindberg, F.**, Marconcini, M., Frate, F.D., et al. (2018) Spatial Distribution of Sensible and Latent Heat Flux in the City of Basel (Switzerland). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 2018; (99):1-7.
- Lindberg, F.**, Grimmond, C.S.B., Gabey, A., Huang, B., Kent, C.W., Sun, T., Theeuwes, N., Järvi, L., Ward, H., Capel-Timms, I., Chang, Y.Y., Jonsson, P., Krave, N., Liu, D., Meyer, D., Olofson, F., Tan, J.G., Wästberg, D., Xue, L., Zhang, Z. (2018) Urban Multi-scale Environmental Predictor (UMEP): An integrated tool for city-based climate services. *Environmental Modelling and Software*. 99, 70-87.
- Andersson-Sköld, Y., Klingberg, J., Gunnarsson, B., Gustafsson, I., Hedblom, M., Knez, I., **Lindberg, F.**, Ode Sang, Å., Pleijel, H., Thorsson, P. and Thorsson, S. (2017) A framework for assessing urban greenery's effects and valuing its ecosystem services. *Journal of Environmental Management*. 205, 274-285.
- Klingberg, J., Konarska, J., **Lindberg, F.**, Johansson, L. and Thorsson, S. (2017) Leaf area of urban woodlands, parks and trees in a high latitude city. *Urban Forestry and Urban Greening*. 26, 31-40.
- Yahia, M., Johansson, E., Thorsson, S., **Lindberg, F.**, Rasmussen, M. (2017) Effect of urban design on microclimate and thermal comfort outdoors in warm-humid Dar es Salaam, Tanzania. *International Journal of Biometeorology*. In Press.
- Thorsson, S., Rayner, D., **Lindberg, F.**, Monteiro, A., Katzschner, L., K., Lau, Campe, S., Katzschner, A., Konarska, J., Onomura, S., Velho, S., Holmer, B. (2017) Present and projected future mean radiant temperature for three European cities. *International Journal of Biometeorology*. 61, 1531–1543. DOI 10.1007/s00484-017-1332-2.
- Hedblom, M., **Lindberg, F.**, Vogel, E., Wissman, J. and Ahrné, K. (2017) Estimating urban lawn cover in space and time: case studies in three Swedish cities. *Urban Ecosystem*. 20: 1109-1119.
<https://doi.org/10.1007/s11252-017-0658-1>.
- Kent, C.W., Grimmond, C.S.B., Gatey, D., Barlow, J., Kotthaus, S., **Lindberg, F.**, Halios, C.H. (2017) Evaluation of urban local-scale aerodynamic parameters: implications for modelling the vertical profile of wind and source areas. *Boundary Layer Meteorology*. 164: 183-213. <https://doi.org/10.1007/s10546-017-0248-z>
- Lau, K., **Lindberg, F.**, Johansson, E., Rasmussen, M. and Thorsson, S. (2017) Investigating solar energy potential in tropical urban environment: a case study of Dar es Salaam, Tanzania. *Sustainable Cities and Society*. DOI: 10.1016/j.scs.2017.01.010.
- Yunus, A., Avtar, R., Kraines, S., Yamamuro, M., **Lindberg, F.** and Grimmond C.S.B. (2016) Uncertainties in Tidally Adjusted Estimates of Sea Level Rise Flooding (Bathtub Model) for the Greater London. *Remote Sensing* 8(5), DOI:10.3390/rs8050366
- Lindberg, F.**, Lau, K., Rayner, D. and Thorsson, S. (2016) The impact of urban planning strategies on heat stress in a climate-change perspective. *Sustainable Cities and Society*. 25, 1–12.
- Onomura, S., **Lindberg, F.**, Holmer, B. and Thorsson, S. (2016) Intra-urban nocturnal cooling rates: development and evaluation of the NOCRA model. *Meteorological Applications*. DOI: 10.1002/met.1558.
- Lindberg, F.**, Onomura, S. and Grimmond, C.S.B (2016) Influence of ground surface characteristics on the mean radiant temperature in urban areas. *International Journal of Biometeorology*. 60(9), 1439-1452.
- Konarska, J., Uddling, J., & Holmer, B., Lutz, M., **Lindberg, F.**, Pleijel, H. and Thorsson, S. (2016) Transpiration of urban trees and its cooling effect in a high latitude city. *International Journal of Biometeorology*. 60:1, 159-172.
- Jänicke, B., Meier, F., **Lindberg, F.**, Schubert, S., Scherer, D. (2016) Towards city-wide, building-resolving analysis of mean radiant temperature. *Urban Climate*. 15, 83–98.

- Konarska, J., Holmer, B., **Lindberg, F.**, Thorsson, S. (2015) Influence of vegetation and building geometry on the spatial variations of air temperature and cooling rates in a high latitude city. *International Journal of Climatology*. 36(5), 2379–2395
- Hu, Y., Almkvist, E., **Lindberg, F.**, Bogren, J. and Gustavsson, T. (2015) The use of screening effects in modelling route-based daytime road surface temperature. *Theoretical and Applied Climatology*. 125(1), 303–319.
- Lindberg, F.**, Jonsson, P., Honjo, T. and Wästberg, D. (2015) Solar energy on building envelopes - 3D modelling in a 2D environment. *Solar Energy*. 115 (2015) 369–378
- Andersson-Sköld, Y., Thorsson, S., Rayner, D., **Lindberg, F.**, Janhäll, S., Jonsson, A., Moback, U., Bergman, R. and Granberg, M. (2015) An integrated method for assessing climate-related risks and adaptation alternatives in urban areas. *Climate Risk Management*. 7, 31–50.
- Johansson, L., Onomura, S., **Lindberg, F.** and Seaquist, J. (2015) Towards the modelling of pedestrian wind speed using high resolution digital surface models and statistical methods. *Theoretical and Applied Climatology*. 124(1), 189–203.
- Lindberg, F.**, Grimmond, C.S.B. and Martilli, A. (2015) Sunlit fractions on urban facets - Impact of spatial resolution and approach. *Urban Climate*. 12:65-84.
- Onomura, S., Grimmond, C.S.B., **Lindberg, F.**, Holmer, B., and Thorsson, S. (2015) Meteorological forcing data for urban outdoor thermal comfort models from a coupled convective boundary layer and surface energy balance scheme. *Urban Climate*. 11:1-23.
- Rayner, D., **Lindberg, F.**, Thorsson, S. and Holmer, B. (2014) A statistical downscaling algorithm for thermal comfort applications. *Theoretical and Applied Climatology*. 122(3), 729–742.
- Lau, K., **Lindberg, F.**, Rayner, D. and Thorsson, S. (2014) The effect of urban geometry on mean radiant temperature under future climate change: a study of three European cities. *International Journal of Biometeorology*. 59(7), 799–814.
- Thorsson, S., Rocklöv, J., Konarska, J., **Lindberg, F.**, Holmer, B., Dousset, B. and Rayner, D. (2014) Mean radiant temperature - A predictor of heat related mortality. *Urban Climate* 10:2, 332-345.
- Konarska, J., **Lindberg, F.**, Larsson, A., Thorsson, S. and Holmer, B. (2013) Transmissivity of solar radiation through crowns of single urban trees—application for outdoor thermal comfort modelling. *Theoretical and Applied Climatology*. 117:363-376.
- Lindberg, F.**, Holmer, B., Thorsson, S. and Rayner, D. (2013) Characteristics of the mean radiant temperature in high latitude cities—implications for sensitive climate planning applications. *International Journal of Biometeorology* 58:5, 613-627.
- Lindberg, F.**, Grimmond, C., Yogeswaran, N., Kotthaus, S. and Allen, L. (2013) Impact of city changes and weather on anthropogenic heat flux in Europe 1995–2015. *Urban Climate* 4, 1-15.
- Loridan, T., **Lindberg, F.**, Jorba, O., Kotthaus, S., Grossman-Clarke, S. and Grimmond, C. (2013) High Resolution Simulation of the Variability of Surface Energy Balance Fluxes Across Central London with Urban Zones for Energy Partitioning. *Boundary-Layer Meteorology* 147:3, 493-523.
- Franzén, L., **Lindberg, F.**, Viklander, V. and Walther, A. (2012) The potential peatland extent and carbon sink in Sweden, as related to the Peatland / Ice Age Hypothesis. *Mires and Peat* 10:8, 1–19.
- Allen, L., **Lindberg, F.** and Grimmond, C. (2011) Global to city scale urban anthropogenic heat flux: model and variability. *International Journal of Climatology* 31:13, 1990-2005.
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