Curriculum Vitae

Name: Fredrik Lindberg Date of birth: 7 August, 1974

Citizenship: Swedish

Current position: Professor in geography with a focus on physical geography

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 Ingegärd 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

Professor in Geography (May 2024)

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

Professor, Department of Earth Sciences, University of Gothenburg, 2024-

Teaching expertise

- Teacher of undergraduate and graduate courses at Department of Earth Sciences (appr. 50% activity level), University of Gothenburg, Sweden (2022-)
- Teacher of undergraduate and graduate courses at Department of Earth Sciences (appr. 40% activity level), University of Gothenburg, Sweden (2015-2022)
- 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)
- 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).

Course development

- Third cycle GIS course (Python scripting in GIS), Department of Earth Sciences, University of Gothenburg, Sweden (2018)
- Second cycle course on Urban sustainable Development, Department of Earth Sciences, University of Gothenburg, Sweden (2014)
- Second cycle GIS courses (Urban GIS and Open-Source GIS), Department of Earth Sciences, University of Gothenburg, Sweden (2011)
- Frist cycle web-based courses in GIS, Department of Earth Sciences, University of Gothenburg, Sweden (2009)

Previous positions and periods of appointment

- Researcher, Physical Geography, Department of Earth Sciences, University of Gothenburg, Sweden (2011-2022)
- 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 Gothenburg, Sweden (2008)
- PhD candidate, Physical Geography, Department of Earth Sciences, 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 of the proposal for the Helmholtz Institute Freiburg for Urban Climate and Environmental Sciences (HIF-UCES) (March 2023)
- Department council, Department of Earth Sciences (2022-)

- Working group to assign new Dean and faculty board 2024-2030, Faculty of Natural Sciences, GU (2023-)
- External head examiner for the third cycle studies, "Geobiosphere Science with a specialisation in Geographical Information Science NAGBVG02" at the Faculty of Sciences, Lund University (2024)
- External deputy examiner for the third cycle studies, "Geobiosphere Science with a specialisation in Physical Geography and Ecosystem Science NAGBVN02" at the Faculty of Sciences, Lund University (2024)

Supervision

Master theses (M = main supervisor)

Josie Gao, 2024, GU (M); Jesper Fahlström, 2024, GU (M); Evelina Bladh, 2024, GU (M); Rebecca Johansson, 2023, GU; GU; Madeleine Cleverstam Vikström, 2023, GU (M); Sebastian Daland, 2023, GU (M); Sandra Lucic, 2023, GU, (M); Ida Dolff, 2022, GU, (M); Louise Lindén, 2022, GU, (M); Alexandra Matyas, 2022, GU; Robert Klein, 2022, GU, (M); Julia Cederbrant, 2021, GU, (M); Ville Strålnacke, 2021, GU, (M); Cornelia Wing, 2021, GU; Kristin Blinge, 2020, GU; Ruben Hallberg, 2020, GU; Oskar Bäcklin, 2019, GU; Timmy Nilsson, 2019, GU, (M); Norea Hellberg, 2019, GU; Filip Olsson, 2019, GU; Deria Abda Amin, 2017, GU; Sara Johansson, 2017, GU, (M); Gunnar Palm, 2017, GU, (M); Bengt Myrberg, 2016/17, GU, (M); Charles Hansson, 2014/15, GU, (M); Hanna Hassberg, 2014/15, Lund University (LU)/GU, (M); Niklas Krave, 2014, LU/GU, (M); Natalia Kuska, 2013, GU, (M); Lars Pettersson, 2011, LU/GU, (M); Annika Larsson, 2011, SLU/GU; Deepak Jeswani, 2008, GU, (M); Jesper Björklund, 2008, GU

PhD candidates, postdoctoral fellows and visiting researcher

Jessika Lönn, Ph.D. student, 2022-, GU, (M)

Nils Wallenberg, Postdoctoral fellow, 2022-2024, GU (M)

Jeremy Bernard, Marie Skłodowska-Curie Individual Fellowship, 2020-2023, GU (M)

Oskar Bäcklin, Ph.D. student, 2020-, GU

Hampus Luning, Ph.D. student, 2019-, GU/Sahlgrenska

Zeng Liyue, visiting Ph.D. student, 2018-2019, Chongqing University, P. R. China (M)

Nils Wallenberg, Ph.D. student, 2018-2022, GU (M)

Frans Olofson, Postdoctoral fellow, 2015-2018, GU (M)

Jenny Kingberg, Postdoctoral fellow, 2014-2016, GU

Nithiyanandam Yogeswaran, visiting PhD-student, 2014, Hong Kong Polytechnic University (M)

Yumei Hu, Ph.D. student, 2011-2018, GU

Kevin Lau, Postdoctoral fellow, 2013-2014, GU (M)

Shiho Onomura, Ph.D, 2011-2015, GU

Janina Konarska, Ph.D. 2011-2015, GU

Doctoral examiner of third-cycle studies

Examiner for PhD-student Cheng Shen (University of Gothenburg) (2022-)

PhD board evaluation member and faculty opponent

- Substitute on evaluation board on PhD defense of Aifang Chen (University of Gothenburg) (June, 2020)
- Head of evaluation board on PhD defence of Karl Samuelson (University of Gävle) (December, 2021)
- External examiner on viva voce (PhD defence) of Megan Stretton (University of Reading) (December, 2022)

Scientific funding

- Värmeböljors inverkan på äldre personers hälsa och välbefinnande Erfarenheter och adaptiva strategier för utomhusaktiviteter i stadsmiljö (The Kamprad Family Foundation, 2024-2027, 400 TSEK). PI: Susanne Gustafsson, Co-applicants: Fredrik Lindberg, Pär Bjälkebring (GU), Isabel Hansson (GU), Marie Kivi (GR)
- Den bebyggda miljön (Boverket, FORMAS, 2023, 40 TSEK). PI Sofia Thorsson/Fredrik Lindberg
- Practical guidelines to resilient urban planning against heat stress (COWI foundation, 2022-2025, 3288
 TSEK). PI: Marie Häger (GU/COWI), Co-applicants: GU, Chalmers and COWI DK

- HEAT: Heat stress in outdoor Environments Planning the city of the older Adults Today and in a future warmer climate (FORMAS, 2021-2025, 8000 TSEK). PI: Fredrik Lindberg, Co-applicants: Susanne Gustafsson (JU), Sofia Thorsson (GU), Pär Bjälkebring (GU), Isabel Hansson (GU), Marie Kivi (GR), Erik Johansson LTH and Christofer Åström (UMU)
- PESCA Process for establishing sustainable climate change adaptation, 2022-2023 (VINNOVA, 2022-2023, 3500 TSEK) PI: Göteborgsregionen, Co-applicants: Fredrik Lindberg, Sofia Thorsson, Chalmers, Ale municipality and Acama AB
- Transformation towards green and blue cities: Conflicts between the sustainable development goals, TRANSSAFE (FORMAS, 2020-2022 TSEK 3000), PI: Magnus Evander (UU), Co-applicants: Fredrik Lindberg and others
- Multifunctional blue-green infrastructure optimizing socio-cultural and environmental aspects for sustainable urban development (FORMAS, 2020-2024, TSEK 7985), PI: 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), PI: Fredrik Lindberg (UG)
- The influence of warm weather and outdoor-environment design on preschoolers' physical activities and thermal comfort (FORMAS, 2019-2022 TSEK 3000), PI: Fredrik Lindberg (UG), Co-applicants: Anders Raustorp (UG),
- Visualising and modelling urban air quality influence of vegetation, building morphology and traffic emissions (FORMAS, 2018-2021 TSEK 8992), PI: Håkan Pleijel (UG), Co-applicants: Fredrik Lindberg and others
- URBANFLUXES URBan ANthrpogenic heat FLUX from Earth observation Satellites (Horizon 2020 -Research and Innovation Programme, 2015-2017, Total/GU T€ 2687/319), PI: 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), PI: Fredrik Lindberg
- *Efficient use of land and energy in Dar es Salaam, Tanzania* (SIDA/VR, 2013-2015, TSEK 3000), PI: Erik Johansson, Co-applicants: Fredrik Lindberg, Sofia Thorsson, Maria Rasmusen
- Valuation of ecosystem services provided by urban greenery (FORMAS, 2014-2016, TSEK 8605), PI: Sofia Thorsson, Co-applicants: Fredrik Lindberg, Bengt Gunnarsson, Yvonne Andersson-Sköld, Marcus Hedblom, Åsa Ode Sang, Igor Knez
- *Infrastrukturnära vegetation* (Trafikverket, 2012, TSEK 100), PI: Fredrik Lindberg, Co-applicant: Sofia Thorsson
- *Inventory of urban vegetation using LIDAR technology* (Mistra Urban Futures, 2012, TSEK 198), Main applicant: PI, Co-applicant: Fredrik Lindberg
- SOLEN integration of solar energy calculations in the planning process (City of Göteborg, 2012, 150 TSEK), PI: Fredrik Lindberg
- **Solar Energy from Building Envelopes SEBE** (VINNOVA, 2011, 735 TSEK), PI: 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), PI:
 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), PI: Sofia Thorsson, Coapplicants: Ana Monteiro, Lutz Katzschner, Fredrik Lindberg and David Rayner

- Potential photovoltaic energy production on roof structures, (SolElprogrammet/Göteborg energy/ Länsstyrelsen, 2011, 528 TSEK), PI: 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), PI: 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; Remote Sensing of the Environment

Review assignments for books

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

Scientific meetings and conferences

- EGU General Assembly 2023, Vienna, Austria, 23-28 April 2023 oral presentation
- International Association for Urban Climate Virtual Poster Session, August 2022 plenary moderator and passive participation
- Swedish Climate Symposium, May, 2022, Norrköping, Sweden keynote oral presentation
- Uppstartskonferens för Vinnova och Formas utlysningar om klimatanpassning i den byggda miljön, April, 2022, Stockholm, Sweden poster presentation
- 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". Gothenburg, 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", Gothenburg, Sweden, 2007 organizer, oral presentation
- The 6th International Conference on Urban Climate (ICUC6), Gothenburg, Sweden, 2006 organizer, oral and poster presentation
- Nordic GIS-conference, 2004, Gothenburg, Sweden oral presentation
- The 5th International Conference on Urban Climate (ICUC5), Lodz, Poland, 2003 oral presentation

Selection of invited talks

- Nationellt möte: Tillämpad stadsbyggnad 2023, KTH, Stockholm, Sweden (2023)
- 143rd EuroSDR Board of Delegates meeting, Gävle, Sweden (2023)
- Climat Urbain, Amphi Pierre Gilles de Gennes, Paris, France (2023)
- End seminar CityAirSim, Chalmerska huset, Gothenburg, Sweden (2022)
- GISVäst 30 year anniversary, Clarion Post Hotel, Gothenburg, Sweden (2022)
- Kunskapslyftet, Building and Planning office, City of Gothenburg, Sweden (2022)
- Swedish Climate Symposium 2022 in Norrköping, Sweden (2022)
- 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

- Participated on Swedish national television (SVT) news (Rapport), 2023.
- Hetare blötare städer Verket en plats för kreativitet och möten, Stadsdelsförvaltningen Centrum,
 Göteborg, Sweden, 2023
- 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-)
- Borad member in Geografiska föreningen i Göteborg (2022-)
- Scientific consultant at, Tyréns (2013-2014) including:
 - 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

Summary statistics (February 2024):

h-index: 38 (Google Scholar); 34 (Scopus)

Total peer-reviewed articles: 68 with 16 as first author Total citations: 6940 (Google Scholar); 4376 (Scopus)

In peer-review journals:

Lindberg, F., Lindström, A., Stålnacke, V., Sofia Thorsson and Georgia Destouni (2024) Observations and modelling of mosquito prevalence within urban areas – A case study from Uppsala, Sweden. Urban Ecosystem. https://doi.org/10.1007/s11252-024-01511-7

Wallenberg N., **Lindberg F.**, Thorsson S., Jungmalm J., Fröberg A., Raustorp A. and Rayner D. (2023) The effects of warm weather on children's outdoor heat stress and physical activity in a preschool yard in Gothenburg, Sweden. International Journal of Biometeorology. https://doi.org/10.1007/s00484-023-02551-y

Bernard, J., **Lindberg, F.**, and Oswald, S.: URock 2023a: an open-source GIS-based wind model for complex urban settings, Geosci. Model Dev., 16, 5703–5727, https://doi.org/10.5194/gmd-16-5703-2023, 2023.

Zeng L., **Lindberg F.**, Zhang X., Pan P. and Lu J. (2023) Road surface temperature evaluated with street view-derived parameters in a hot and humid megacity. Urban Climate. https://doi.org/10.1016/j.uclim.2023.101585.

Wallenberg N., Rayner, D., **Lindberg, F.** and Thorsson, S. (2023) Present and future heat stress of preschoolers in five Swedish cities. Climate Risk Management. https://doi.org/10.1016/j.crm.2023.100508.

Wallenberg, N., **Lindberg, F.**, Holmer, B., and Rayner, D. (2023) An anisotropic parameterization scheme for longwave irradiance and its impact on radiant load in urban outdoor settings. International journal of biometeorology. https://doi.org/10.1007/s00484-023-02441-3.

Wallenberg N., **Lindberg, F.**, and Rayner, D. (2022) Locating trees to mitigate outdoor radiant load of humans in urban areas using a metaheuristic hill climbing algorithm – Introducing TreePlanter v1.0. Geoscientific Modelling Development. Geosci. Model Dev., 15, 1107–1128.

Bäcklin O., **Lindberg, F.**, Thorsson, S., Rayner, D., and Wallenberg, N. (2022) Outdoor heat stress at preschools during an extreme summer in Gothenburg, Sweden - Preschool teachers' experiences contextualized by radiation modelling. Sustainable Cities and Society. https://doi.org/10.1016/j.scs.2021.103324.

Konarska J, Klingberg J and **Lindberg F** (2021) Applications of Dual-Wavelength Hemispherical Photography in Urban Climatology and Urban Forestry. Urban Forestry & Urban Greening 58. https://doi.org/10.1016/j.ufug.2020.126964.

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., Örninge, 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.

Nilson, F., **F. Lindberg**, G. Palm, L. Lundgren, D. Rayner, M. Börjesson, S. Thorsson, A. Khorram-Manesh & E. Carlström (2018) TESTING A NOVEL METHOD FOR IDENTIFYING WHERE SERIOUS MEDICAL ENCOUNTERS OCCUR AT MARATHONS IN ORDER TO IMPROVE MEDICAL PREPAREDNESS AND RUNNERS' SAFETY. Injury Prevention, 24.

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.

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