Publications

Journals


Teixeira, J. C., **Fallmann, J.**, Carvalho, A. C., & Rocha, A. (2019). Surface to boundary layer coupling in the urban area of Lisbon comparing different urban canopy models in WRF. Urban Climate, 28, 100454.


Barlow, Best, Bohnenstengel, Brown, Clark, Grimmond, Christen, Emeis, **Fallmann**, Haefelin, Harman, Lemonsu, Martilli, Pardyjak, Rotach, Ballard, Boutle, Brown, et al., 2017, Developing a research strategy to better understand, observe and simulate urban atmospheric processes at kilometre to sub-kilometre scales. Accepted in BAMS.


Written contributions


Poster- and oral presentations


Fallmann J., et al. 2015: Secondary impacts of urban heat island mitigation strategies on urban air quality - a numerical modeling study. Oral presentation at the 34th International Technical Meeting on Air Pollution Modelling and its Application 4-8 May, 2015, Montpellier, France.

Fallmann, J.; Emeis, S.; Suppan, P.; Forkel, R.; Grell, G.; McKeen, S. Using WRF-Chem with high resolution emission data to model the effect of urban heat island mitigation strategies on urban air quality. 9th International Conference on Air Quality - Science and Application, Garmisch-Partenkirchen, D, March 24-28, 2014 (Oral Presentation).


Invited talks


2017  Fallmann, J. 2017: From Surface to Atmosphere – UK Environmental prediction at the Met Office. KIT Garmisch Partenkirchen, 02/ 2017


2016  Fallmann, J. 2016: Fog prediction in the British Channel using coupled modeling systems. FSD Seminar at the Met Office Division Aberdeen, Scotland. 04/2017

Fallmann, J. 2016: High resolution modeling on convective scale for air quality simulations in urban areas (WRF) and for ocean-atmosphere interactions in the framework of the Met Office UK Environmental Prediction System. Meteorological Colloquium Free University FU Berlin. February 2016.


Fallmann J. 2015: Numerical simulations to assess the effect of urban heat island mitigation strategies on regional air quality. Invited talk at the institute’s seminar of the meteorological institute of the Ludwig Maximilians University Munich. April 17 2015.

Fallmann J. 2015: Cool City – Clean City? Secondary impacts of urban heat island mitigation strategies on urban air quality. Invited talk at the seminar of the Analytical & Environmental Sciences Division (AMS) of the King’s College London. London, March 9 2015.
