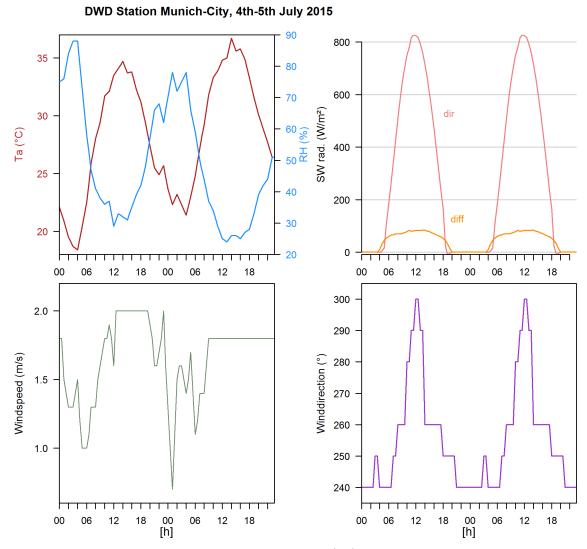
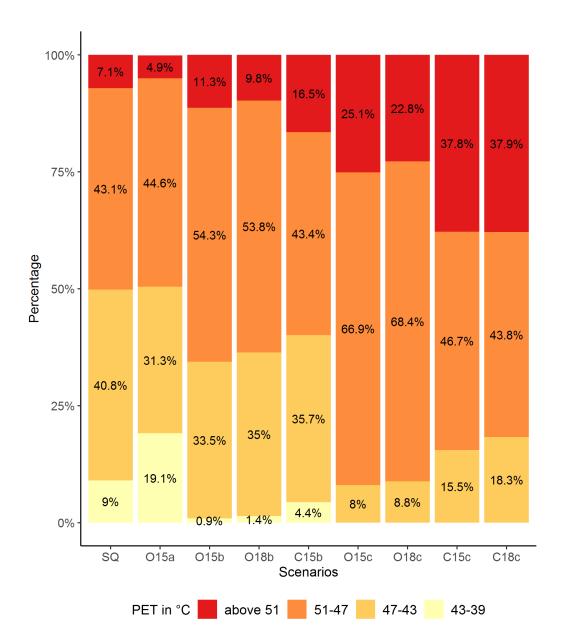
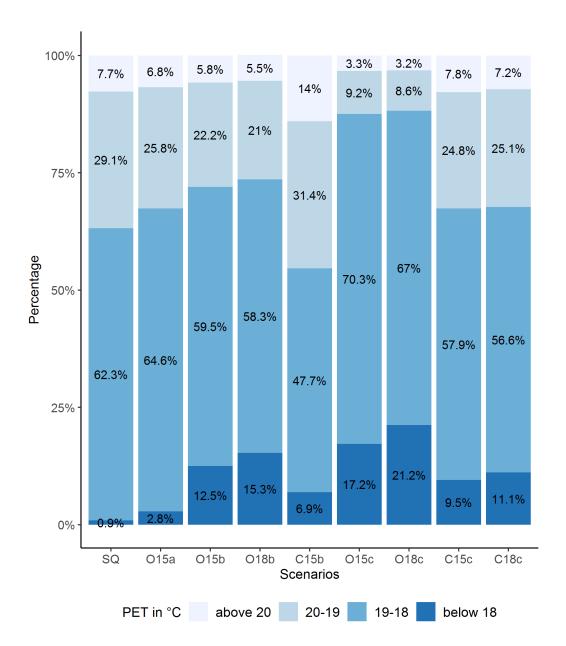
Supplements to article "Trade-offs between urban green space, mobility demands and outdoor thermal comfort in densifying neighbourhoods" (Erlwein and Pauleit)



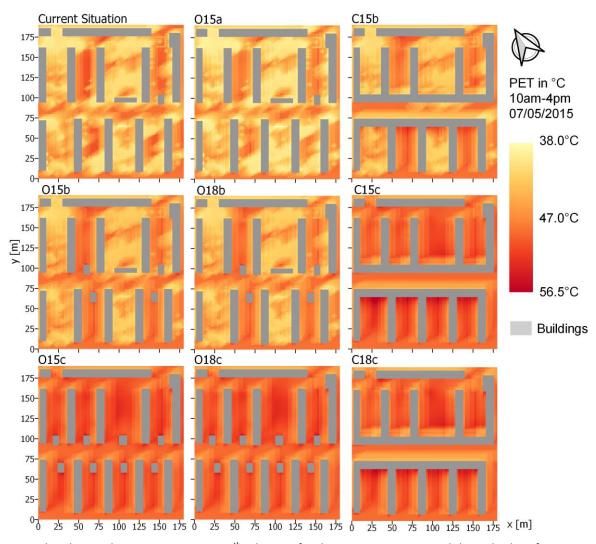
S 1. Meteorological input variables for the ENVI-met simulation 4^{th} - 5^{th} July 2015.



S2: Heat distribution (PET) for each scenario at 2 pm, 5^{th} July 2015 represented in stacked barcharts. All percentages refer to the total model area. Labelling of scenarios: O/C = open vs. closed rows, 15/18 m building height, a = one carpark (100% trees), b = 4 carparks (65-53% trees), c = eight carparks (zero trees).



S3: Heat distribution (PET) for each scenario at 4 am, 6^{th} July 2015 represented in stacked barcharts. All percentages refer to the total model area. Labelling of scenarios: O/C = open/closed rows, 15/18 m building height, a = one carpark (100% trees), b = 4 carparks (65-53% trees), c = eight carparks (zero trees).



S4. Simulated PET values 10 am - 4 pm on 5^{th} July 2015 for the current situation and the eight densification scenarios (1.4 m height). (O = open rows, C = closed rows, 15/18 = 15/18 m building height, a/b/c = 1/4/8 underground car parks).

scenario	SVF	ΔSVF	T _{mrt}	ΔT_{mrt}	Ta	ΔTa	PET	ΔΡΕΤ
SQ	0.24		54.2		39.2		49.8	
O15a	0.22	-0.02	53.5	-0.7	38.9	-0.3	46.7	-0.5
O15b	0.33	0.09	66.2	12	39.2	0	49.3	2.1
O15c	0.48	0.24	71.3	17.1	40	0.8	49.8	2.6
C15b	0.28	0.04	65.3	11.1	39.4	0.2	49.2	2.0
C15c	0.41	0.17	70.7	16.5	39.2	0	49.8	2.6
C18c	0.38	0.14	70.7	16.5	39.2	0	49.8	2.6
O18b	0.31	0.07	66	11.8	39.7	0.5	49.2	2.0
O18c	0.46	0.22	71.4	17.2	39.9	0.7	49.8	2.6

S5. SVF, average Tmrt, Ta, PET results for all scenarios and their relative difference to the base case on 5th July 2015 at 2 pm.

Supplements to Erlwein and Pauleit "Trade-offs between urban green space, mobility demands and outdoor thermal comfort in densifying neighbourhoods"