

Figure S1. Monthly means of the particle number emission rates of all PMF factors (a–p).

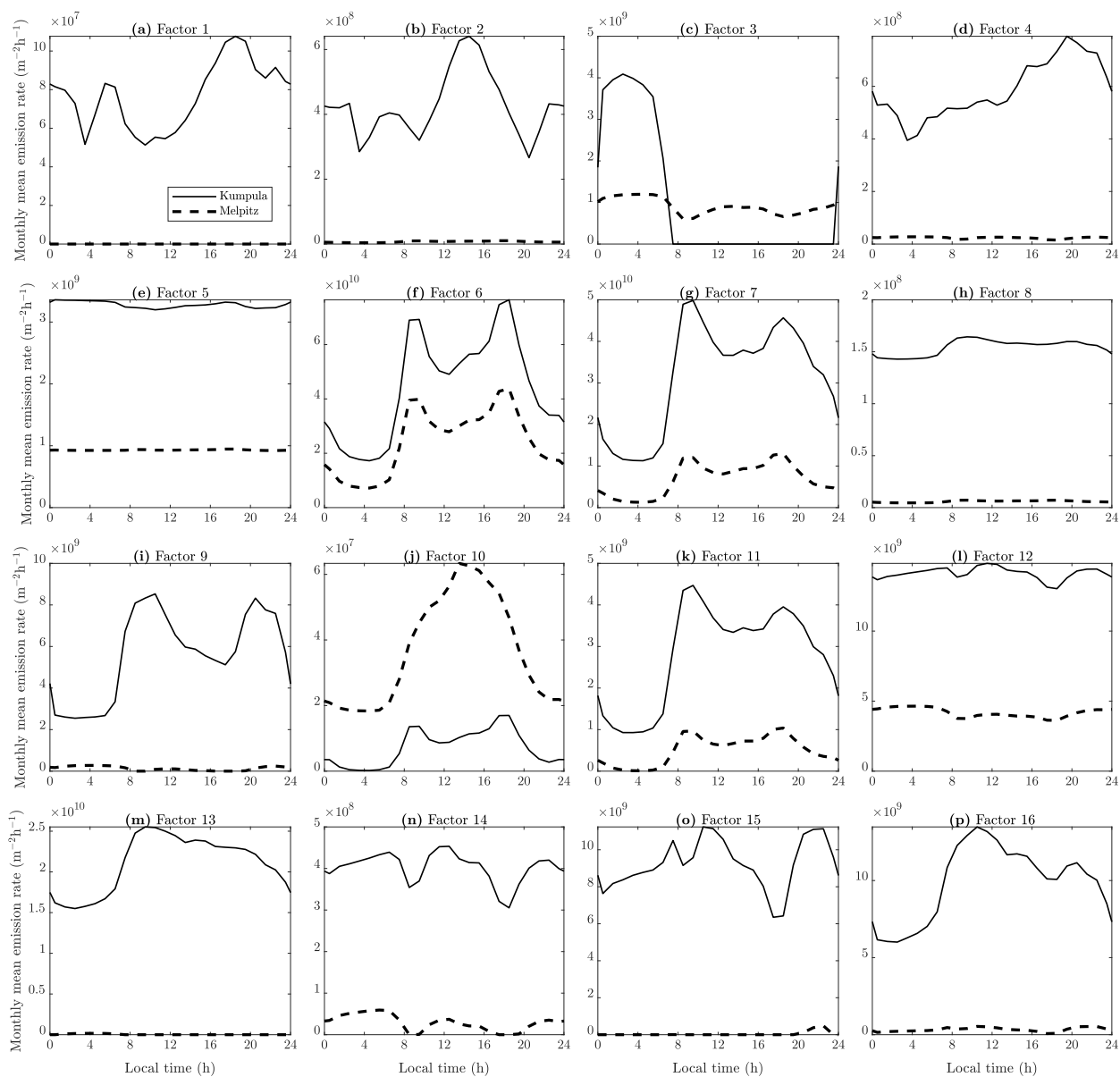


Figure S2. Monthly mean diurnal variations of the particle number emission rates in Kumpula/Mäkelänkatu, Finland, and Melpitz, Germany, of all PMF factors (a–p).

Table S1. Statistics for grid cell-separated ratios of monthly means of concentrations on the surface-level simulated with the updated and with the original emission inventory. The bold values highlight the particle size ranges experiencing the greatest effects due to updating the inventory.

	$\frac{N_{NCA}^{upd}}{N_{NCA}^{orig}}$	$\frac{N_{<10}^{upd}}{N_{<10}^{orig}}$	$\frac{N_{7-20}^{upd}}{N_{7-20}^{orig}}$	$\frac{N_{<23}^{upd}}{N_{<23}^{orig}}$	$\frac{N_{tot}^{upd}}{N_{tot}^{orig}}$
Mean	1.113	1.060	1.019	1.029	1.009
Population-weighted mean	1.100	1.053	1.096	1.034	1.022
Median	0.9996	1.001	1.007	1.0004	1.002
Population-weighted median	1.004	1.004	1.043	1.006	1.006