

みなとみらい21地区における熱風環境シミュレーション:粒子追跡法による空気塊移動解析
Sea breeze analysis on LES simulations and the particle trace calculations in MM21
district

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We have performed thermal and wind environment LES simulations in MM21 district in Yokohama. The
used simulation model is MSSG (Multi-Scale Simulator for the Geo-environment). The spatial
resolution is about 5m in horizontal and vertical axis. We have also performed the particle trace
analysis in order to investigate the route of the sea-breeze. We have found the cool wind is
gradually warmed up as flowing into the district, then it blows up and is diffused. We will discuss
the diffusion coefficient in comparison with the several cases of vegetation and the DHC (District
Heating & Cooling) system in the area.

キーワード：熱風環境計算、粒子追跡

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