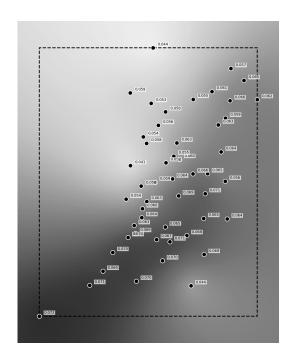
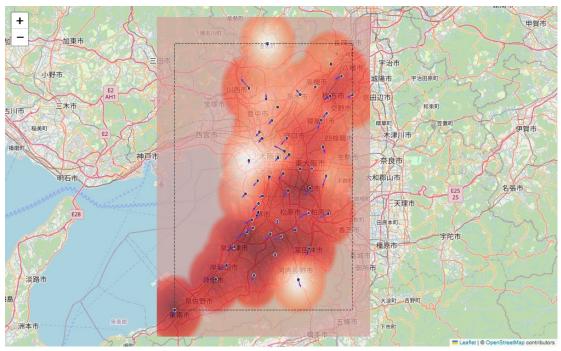
## Simple Kriging Interpolation - 2025/5/12 19H

$$\hat{z}(x_0) = \sum_{i=1}^n \lambda_i z(x_i)$$

 $\hat{z}(x_0)$ : estimated value at location  $x_0$   $z(x_i)$ : known value at location  $x_i$   $\lambda_i$ : Kriging weight for  $z(x_i)$ , based on spatial correlation  $\sum_i \lambda_i = 1$ : weights sum to 1 (unbiasedness condition) Weights depend on variogram model (e.g., exponential, spherical...)





## Transform RMSE R2 Model MAE 0.00618 0.00438 0.260 linear none linear log 0.00628 0.00449 0.234 0.00623 0.00443 0.248 linear sgrt 0.00629 0.00470 0.233 gaussian none gaussian log 0.00632 0.00477 0.225 0.00630 0.00473 0.230 gaussian sqrt 0.00623 0.00451 0.248 exponential none 0.00624 0.00459 0.244 exponential log exponential sqrt 0.00623 0.00455 0.247 spherical none 0.00626 0.00461 0.241 0.00627 0.00469 0.237 spherical log spherical sqrt 0.00626 0.00464 0.239

