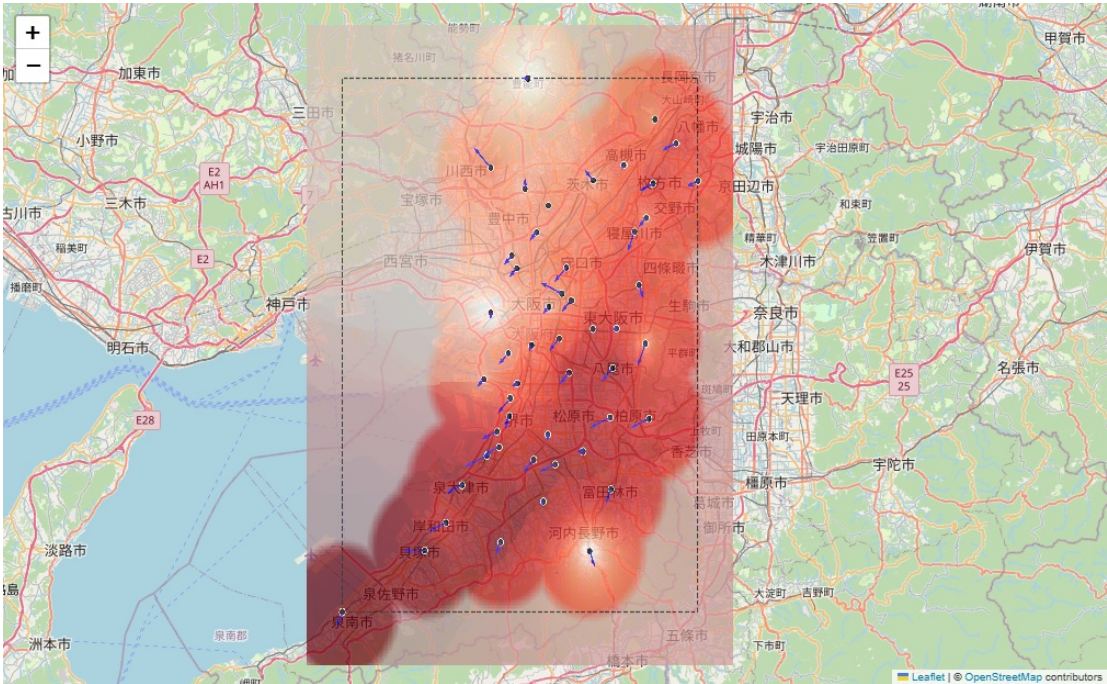
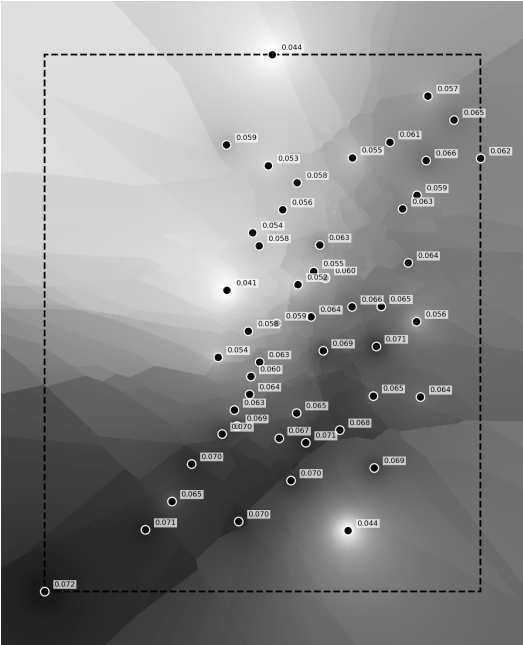


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$$\hat{Z}(x_0) = \frac{\sum_{i=1}^k w_i z_i}{\sum_{i=1}^k w_i}, \text{ where } w_i = \frac{1}{d(x_0, x_i)^p}$$

$x_0$ : location to interpolate  
 $x_i$ : known data point location  
 $z_i$ : known value at  $x_i$   
 $d(x_0, x_i)$ : distance between  $x_0$  and  $x_i$   
 $w_i$ : weight of  $z_i$   
 $p$ : power parameter (controls weight decay)  
 $k$ : number of nearest neighbors



k	p	RMSE	MAE	R <sup>2</sup>
5	1.00	0.00607	0.00429	0.286
5	1.20	0.00607	0.00431	0.285
5	1.50	0.00608	0.00434	0.283
5	2.00	0.00610	0.00438	0.278
6	1.00	0.00592	0.00416	0.321
6	1.20	0.00593	0.00419	0.318
6	1.50	0.00596	0.00424	0.312
6	2.00	0.00600	0.00431	0.302
7	1.00	0.00593	0.00412	0.318
7	1.20	0.00594	0.00415	0.316
7	1.50	0.00595	0.00420	0.312
7	2.00	0.00599	0.00427	0.303
9	1.00	0.00585	0.00406	0.335
9	1.20	0.00587	0.00410	0.332
9	1.50	0.00590	0.00415	0.325
9	2.00	0.00595	0.00425	0.312

