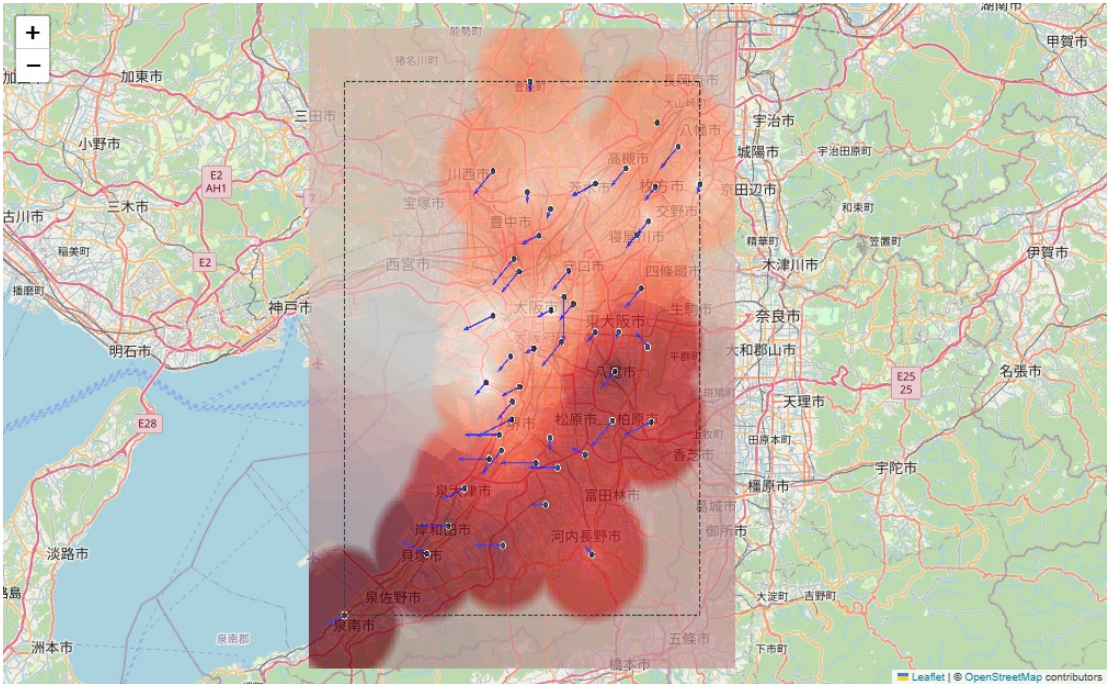
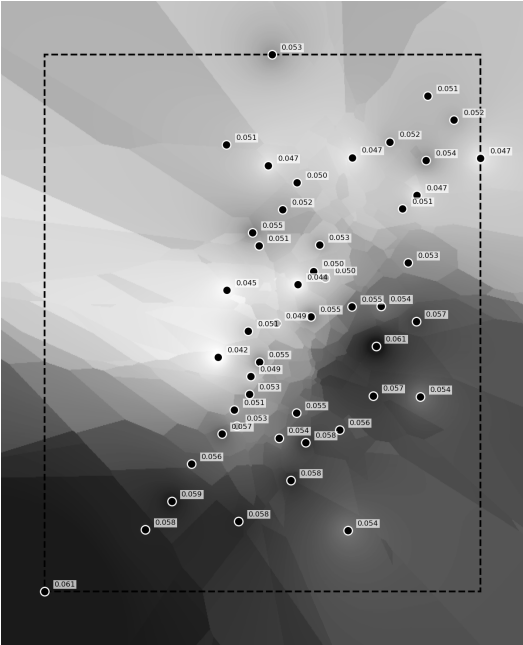


# IDW Cross-validation Report

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

$x_0$ : 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	0.00327	0.00248	0.397
5	1.20	0.00328	0.00250	0.393
5	1.50	0.00329	0.00255	0.386
5	2.00	0.00333	0.00262	0.371
6	1.00	0.00321	0.00249	0.416
6	1.20	0.00322	0.00250	0.414
6	1.50	0.00324	0.00252	0.408
6	2.00	0.00328	0.00259	0.393
7	1.00	0.00326	0.00257	0.399
7	1.20	0.00326	0.00257	0.399
7	1.50	0.00327	0.00258	0.397
7	2.00	0.00329	0.00262	0.388
9	1.00	0.00323	0.00247	0.412
9	1.20	0.00322	0.00248	0.413
9	1.50	0.00323	0.00250	0.411
9	2.00	0.00326	0.00256	0.401

