

Corrigendum

Corrigendum to “Spatial prediction of soil properties using EBLUP with the Matérn covariance function” [Geoderma 140 (2007) 324–336]

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There has been an error in the calculation of the $\theta(\mathbf{x})$ statistics for the REML-EBLUP method. The following are the corrections to the paper, the error does not affect the conclusions of the paper.

Table 2, page 332, the correct values are as follows.

Prediction method	RMSD	Mean $\theta(\mathbf{x})$	Median $\theta(\mathbf{x})$
REML-EBLUP	0.666	1.03	0.30
Regression kriging	0.682	1.07	0.32
Kriging	0.690	1.09	0.34

The correct sentence for section 4.2 (page 332, second paragraph) is:

According to the $\theta(\mathbf{x})$ statistics, EBLUP, ordinary kriging and regression kriging perform similarly.

Table 4, page 333, prediction of clay content in the Edgeroi area on the test set, the correct values are as follows.

Prediction methods	RMSD (kg/kg)	Mean $\theta(\mathbf{x})$	Median $\theta(\mathbf{x})$
REML-EBLUP	0.120	0.96	0.47
Regression kriging	0.122	1.01	0.45
Kriging	0.126	1.08	0.58
Ordinary LS (trend only)	0.139		

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Fig. 10 should be:

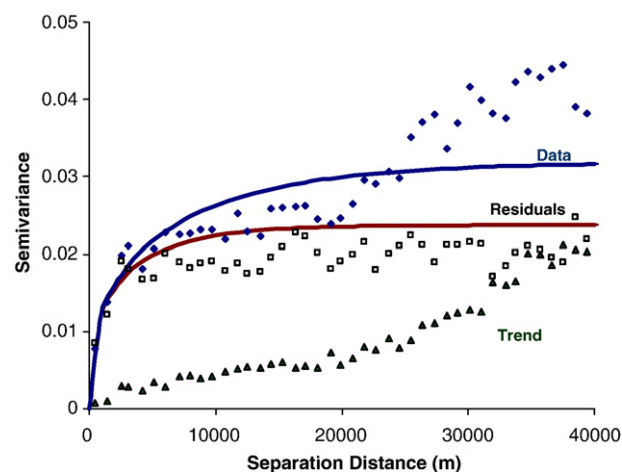


Fig. 10.

Section 4.3, page 333, second paragraph. The correct parameter value for the Matern model is: $c_0=0.0$, $c_1=0.024$, $r=5770$ and $\nu=0.17$. In the third paragraph, the following sentence no longer applies: According to the $\theta(\mathbf{x})$ statistics, REML-EBLUP performs worst with mean 0.58 and median 0.27 implying overestimation of the variance. The best predictor according to the $\theta(\mathbf{x})$ statistics is regression kriging.

Table 5, page 333, prediction of cotton lint yield from N fertiliser field experiment, the correct values are as follows.

Table 5

Prediction methods	RMSD (Mg/ha)	Mean $\theta(x)$	Median $\theta(x)$
REML-EBLUP	0.126	0.93	0.23
Regression kriging	0.157	1.03	0.32
Kriging	0.163	1.86	0.54
Ordinary LS (trend only)	0.188		

Section 4.4, the following sentence no longer applies: The inadequacy of the $\theta(x)$ statistics is demonstrated again, favouring kriging and implying the overestimation of variance for EBLUP.

Fig. 13 is not printed correctly; the correct figure is as follows.

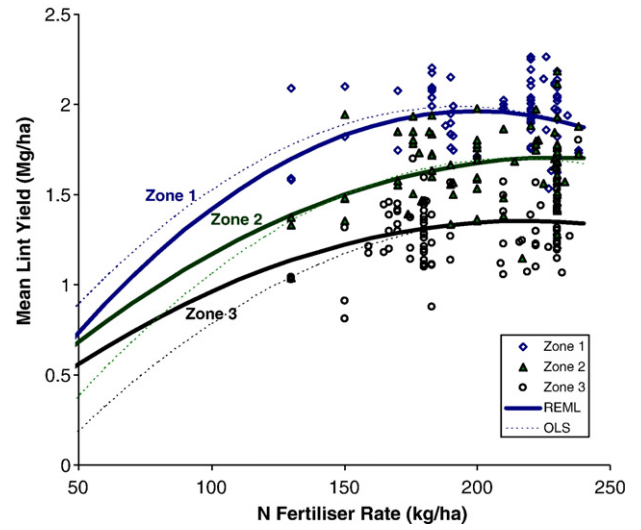


Fig. 13.