Supplementary Material A: 5th, 25th, 50th, 75th, and 95th quantile of three cumulative distribution functions for eight biological indicators.

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|  | 5th quantile | 25th quantile | 50th quantile | 75th quantile | 95th quantile |
| **Croplands (seasonal and spatial variability)** |  |  |
| MBCmg kg-1 | 107 | 212 | 341 | 549 | 1088 |
| Cmic/Nmicmg mg-1 | 2.4 | 4.5 | 7.1 | 11.2 | 21.3 |
| Respiration potential mg C-CO2 kg-1 h-1 | 0.06 | 0.07 | 0.27 | 0.85 | 4.01 |
| Earthworm abundanceInd. m² | 0 | 0 | 16 | 70 | 147 |
| Net nitrogen mineralisationmg N kg-1 d-1 | -1.05 | -0.29 | 0.41 | 1.30 | 3.00 |
| Metabolic quotientmg C-CO2 kg-1 C h-1 | 0 | 0.10 | 0.70 | 1.29 | 2.16 |
| Metabolic potential% | 29 | 46 | 58 | 70 | 88 |
| Microbial quotient% | 1.20 | 2.12 | 3.16 | 4.71 | 8.36 |
| **Croplands (spatial variability only)** |  |  |
| MBCmg kg-1 | 128 | 202 | 279 | 384 | 614 |
| Cmic/Nmicmg mg-1 | 3.7 | 4.7 | 5.2 | 6.0 | 7.8 |
| Respiration potential mg C-CO2 kg-1 h-1 | 0.12 | 0.21 | 0.31 | 0.46 | 0.81 |
| Earthworm abundanceInd. m² | 0 | 0 | 5 | 28 | 61 |
| Net nitrogen mineralisationmg N kg-1 d-1 | -0.96 | -0.24 | 0.41 | 1.22 | 2.72 |
| Metabolic quotientmg C-CO2 kg-1 C h-1 | 0.60 | 1.00 | 1.27 | 1.54 | 1.93 |
| Metabolic potential% | 45 | 53 | 58 | 63 | 71 |
| Microbial quotient% | 1.23 | 1.69 | 2.11 | 2.64 | 3.64 |
| **Grasslands (spatial variability only)** |  |  |
| MBCmg kg-1 | 578 | 916 | 1249 | 1720 | 2724 |
| Cmic/Nmicmg mg-1 | 3.9 | 5.0 | 5.5 | 6.7 | 8.2 |
| Respiration potential mg C-CO2 kg-1 h-1 | 0.72 | 1.02 | 1.30 | 1.65 | 2.33 |
| Earthworm abundanceInd. m² | 0 | 6 | 17 | 36 | 89 |
| Net nitrogen mineralisationmg N kg-1 d-1 | -1.36 | 0.29 | 1.43 | 2.58 | 4.22 |
| Metabolic quotientmg C-CO2 kg-1 C h-1 | 0.66 | 0.84 | 1.04 | 1.36 | 2.44 |
| Metabolic potential% | 50 | 56 | 63 | 67 | 77 |
| Microbial quotient% | 1.51 | 2.41 | 3.32 | 4.62 | 7.39 |