**Supplemental\_data\_S1**

Table. S1. The result of variance inflation factors (VIF) of environmental variables.

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| **Environmental variables** | **VIF** |
| Elevation | 1.41 |
| Agriculture | 1.91 |
| Bareland | 2.37 |
| Forest | 5.41 |
| Grassland | 1.64 |
| Urbanization | 6.21 |
| Water | 1.13 |
| Distance to protected area | 1.08 |
| Distance to river | 1.08 |
| Population | 3.80 |