**Supplemental table 2.** Generalized Variance Inflation Factor (VIF) used for final calibration and prediction of climatic space (bold numbers represent variable with high VIF value which were removed in the final model).

|  |
| --- |
| VIF test |
| Climate factor | Run1 | Run 2 | Run 3 | Run 4 | Run 5 | Run 6 | Run 7 | Run 8 | Run 9 | Run 10 | Run 11 | Run 12 | Run 13 |
| Bio1 | 2682.83 | 2682.83 | 2304.95 | 505.21 | 486.68 | 232.46 | 143.14 | 30.54 | 30.52 | 30.46 | 30.14 | 1.97 | 1.86 |
| Bio2 | 79.23 | 79.23 | 71.40 | 70.67 | 70.67 | 27.32 | 26.90 | 12.61 | 12.54 | 12.48 | 2.67 | 2.67 | 2.61 |
| Bio3 | 69.94 | 69.94 | 69.14 | 68.94 | 68.65 | 48.83 | 48.82 | 45.11 | 42.33 | **41.91** |  |  |  |
| Bio4 | 5169.25 | 5169.25 | 1720.91 | 577.20 | 570.01 | 162.65 | 62.48 | 42.36 | 40.88 | 40.76 | 14.38 | 1.53 | 1.22 |
| Bio5 | Inf  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bio6 | Inf  | 726.65 | 589.80 | 505.21 | 496.97 | 233.39 | **212.03** |  |  |  |  |  |  |
| Bio7 | Inf  | 1269.62 | 974.33 | 973.36 | **970.87** |  |  |  |  |  |  |  |  |
| Bio8 | 400.79 | 400.79 | 399.38 | 341.76 | 309.50 | **298.94** |  |  |  |  |  |  |  |
| Bio9 | 39.24 | 39.24 | 39.23 | 38.83 | 37.90 | 37.26 | 36.88 | 32.08 | 31.96 | 31.96 | **31.88** |  |  |
| Bio10 | 9367.92 | **9367.92** |  |  |  |  |  |  |  |  |  |  |  |
| Bio11 | 6122.14 | 6122.14 | **3591.81** |  |  |  |  |  |  |  |  |  |  |
| Bio12 | 218.44 | 218.44 | 218.44 | 218.32 | 90.14 | 83.01 | 71.59 | 70.98 | 30.85 | 30.31 | 30.19 | **28.38** |  |
| Bio13 | 136.58 | 136.58 | 126.89 | 125.08 | 108.99 | 107.51 | 95.39 | 92.05 | 26.90 | 26.55 | 26.46 | 26.34 | 3.02 |
| Bio14 | 40.63 | 40.63 | 40.33 | 39.05 | 39.01 | 38.94 | 38.74 | 38.55 | 37.37 | 5.68 | 4.87 | 4.84 | 4.63 |
| Bio15 | 5.46 | 5.46 | 5.46 | 5.16 | 4.47 | 4.46 | 4.45 | 4.41 | 4.40 | 4.39 | 4.26 | 4.23 | 1.96 |
| Bio16 | 1094.53 | 1094.53 | 1076.04 | **1033.65** |  |  |  |  |  |  |  |  |  |
| Bio17 | 155.18 | 155.18 | 154.86 | 154.65 | 135.97 | 134.53 | 133.70 | 133.67 | **126.89** |  |  |  |  |
| Bio18 | 698.09 | 698.09 | 643.52 | 579.79 | 225.37 | 221.72 | 183.00 | **169.08** |  |  |  |  |  |
| Bio19 | 50.65 | 50.65 | 50.04 | 50.00 | 44.01 | 43.60 | 43.42 | 43.41 | 43.33 | 4.99 | 3.86 | 3.45 | 3.07 |