**Table S2.** Performance metrics for parameter settings used for creating the present time model and relative contribution (%) of variables.

| Variable | cf. *bedriagae* | *kurtmuelleri* | *ridibundus* |
|---|---|---|---|
| Partial ROC* | 0 (0) | 0 (0) | 0 (0) |
| Omission rate 5%* | 0.053 (0.042) | 0.286 (0.267) | 0.089 (0.044) |
| AICc* | 7176 (7500) | 818 (847) | 5691 (5865) |
| Delta AICc* | 0 (0) | 0 (0) | 0 (0) |
| Regularization multiplier* | 5.0 (2.5) | 4.5 (3.0) | 2.5 (3.5) |
| Response type of feature classes* | l (lqpth) | lqt (qth) | lqh (lqth) |
| Mean diurnal range (Bio 2) | 0.9 | 0.4 | 5.2 |
| Temperature seasonality (Bio 4) | 0.1 | 4.3 | 3.7 |
| Mean temperature of wettest quarter (Bio 8) | 11.0 | 1.5 | 8.5 |
| Mean temperature of driest quarter (Bio 9) | 30.6 | 20.3 | 2.2 |
| Precipitation of driest month (Bio 14) | 0.3 | 0 | 24.4 |
| Precipitation seasonality (Bio 15) | 1.8 | 0.4 | 1.8 |
| Precipitation of coldest quarter (Bio 19) | 1.9 | 37.2 | 0.1 |
| Broadleaf forest | 0.8 | 2.9 | 2.1 |
| Needleleaf forest | 3.8 | 1.8 | 2.5 |
| Mixed forest | 1.4 | 0.1 | 3.0 |
| Shrubs | 0.1 | 2.3 | 1.4 |
| Barren | 38.7 | 12.4 | 1.0 |
| Herbaceous vegetation | 0.3 | 5.6 | 1.7 |
| Cultivated vegetation | 0.8 | 0.2 | 16.3 |
| Altitude | 1.2 | 6.2 | 2.6 |
| Aridity index | 1.9 | 0.6 | 0.1 |
| Habitat homogeneity | 3.4 | 0.9 | 20.2 |
| Terrain roughness | 0.1 | 0 | 0.8 |
| Terrain roughness index | 0.1 | 0 | 1.3 |
| Tree coverage percent | 0.9 | 2.9 | 1.1 |

*With only seven bioclimatic variables (in rounded squares).