Supporting Information, Table S1. *Loncovilius* species and selected variables used in each set to create the final ecological niche models.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bioclimatic variables | *L*. *variabilis*\* | | *L*. *variabilis*\*\* | *L*. *edwardsianus* | | *L*. *cantharoides* | | *L*. *lividipennis* | |
|  | Set 1 | Set 2 | Set 1 Set 2 | Set 1 | Set 2 | Set 1 | Set 2 | Set 1 | Set 2 |
| Annual Mean Temperature (bc1) | x | x | x x | x |  | x | x | x | x |
| Mean Diurnal Range (Mean of monthly (bc2; max temp - min temp)) | x |  | x | x |  | x |  | x |  |
| Isothermality (bc2/bc7) (×100) |  |  |  | x |  | x |  | x |  |
| Temperature Seasonality (standard deviation ×100) | x |  | x |  |  | x |  | x |  |
| Max Temperature of Warmest Month (bc5) |  |  | x |  |  |  |  | x |  |
| Min Temperature of Coldest Month (bc6) | x | x | x |  |  |  |  |  |  |
| Temperature Annual Range (bc5-bc6) |  |  |  |  |  |  |  |  |  |
| Mean Temperature of Warmest Quarter |  |  |  |  |  | x |  |  |  |
| Mean Temperature of Coldest Quarter |  |  |  | x | x |  |  |  |  |
| Annual Precipitation | x |  | x x | x |  | x |  | x | x |
| Precipitation of Wettest Month | x | x | x x | x | x |  | x |  |  |
| Precipitation of Driest Month |  |  |  | x |  | x |  | x | x |
| Precipitation Seasonality (Coefficient of Variation) | x |  | x x |  |  | x |  | x |  |
| Precipitation of Wettest Quarter |  |  |  |  |  |  |  |  |  |
| Precipitation of Driest Quarter |  |  |  |  |  |  |  |  |  |

\* Excludes the northernmost occurrence of *Loncovilius variabilis* sp. nov. (Santiago Metropolitan Region).

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