**Electronic supplementary material 4**

**Table 1: Description of Bioclim variables and the contributing variables used in their calculation**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable Number** | **Variable (Unit)** | **Minimum temp (°C)** | **Maximum temp (°C)** | **Rainfall (mm month-1)** | **Radiation (W m-2d-1)** | **Evaporation (mm d-1)** |
| Bio01 | Annual mean temperature (°C) | × | × |  |  |  |
| Bio02 | Mean diurnal temperature range (mean(period max-min)) (°C) | × | × |  |  |  |
| Bio03 | Isothermality (Bio02 ÷ Bio07) | × | × |  |  |  |
| Bio04 | Temperature seasonality (C of V) | × | × |  |  |  |
| Bio05 | Max temperature of warmest week (°C) |  | × |  |  |  |
| Bio06 | Min temperature of coldest week (°C) | × |  |  |  |  |
| Bio07 | Temperature annual range (Bio05-Bio06) (°C) | × | × |  |  |  |
| Bio08 | Mean temperature of wettest quarter (°C) | × | × | × |  |  |
| Bio09 | Mean temperature of driest quarter (°C) | × | × | × |  |  |
| Bio10 | Mean temperature of warmest quarter (°C) | × | × |  |  |  |
| Bio11 | Mean temperature of coldest quarter (°C) | × | × |  |  |  |
| Bio12 | Annual precipitation (mm) |  |  | × |  |  |
| Bio13 | Precipitation of wettest week (mm) |  |  | × |  |  |
| Bio14 | Precipitation of driest week (mm) |  |  | × |  |  |
| Bio15 | Precipitation seasonality (C of V) |  |  | × |  |  |
| Bio16 | Precipitation of wettest quarter (mm) |  |  | × |  |  |
| Bio17 | Precipitation of driest quarter (mm) |  |  | × |  |  |
| Bio18 | Precipitation of warmest quarter (mm) | × | × | × |  |  |
| Bio19 | Precipitation of coldest quarter (mm) | × | × | × |  |  |
| Bio20 | Annual mean radiation (W m-2) |  |  |  | × |  |
| Bio21 | Highest weekly radiation (W m-2) |  |  |  | × |  |
| Bio22 | Lowest weekly radiation (W m-2 |  |  |  | × |  |
| Bio23 | Radiation seasonality (C of V) |  |  |  | × |  |
| Bio24 | Radiation of wettest quarter (W m-2) |  |  | × | × |  |
| Bio25 | Radiation of driest quarter (W m-2) |  |  | × | × |  |
| Bio26 | Radiation of warmest quarter (W m-2) | × | × |  | × |  |
| Bio27 | Radiation of coldest quarter (W m-2) | × | × |  | × |  |
| Bio28 | Annual mean moisture index |  |  | × |  | × |
| Bio29 | Highest weekly moisture index |  |  | × |  | × |
| Bio30 | Lowest weekly moisture index |  |  | × |  | × |
| Bio31 | Moisture index seasonality (C of V) |  |  | × |  | × |
| Bio32 | Mean moisture index of wettest quarter |  |  | × |  | × |
| Bio33 | Mean moisture index of driest quarter |  |  | × |  | × |
| Bio34 | Mean moisture index of warmest quarter | × | × | × |  | × |
| Bio35 | Mean moisture index of coldest quarter | × | × | × |  | × |
| Bio36 | First principal component of the first 35 Bioclim variables | × | × | × | × | × |
| Bio37 | Second principal component of the first 35 Bioclim variables | × | × | × | × | × |
| Bio38 | Third principal component of the first 35 Bioclim variables | × | × | × | × | × |
| Bio39 | Fourth principal component of the first 35 Bioclim variables | × | × | × | × | × |
| Bio40 | Fifth principal component of the first 35 Bioclim variables | × | × | × | × | × |

Source: https://www.climond.org/ClimateData.aspx