S3 Table. Variable definitions.

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|  | **Variable Descriptiona** |
| Bio1 | Mean annual temperature (°C) from Worldclim |
| Bio2 | Mean annual diurnal temperature range (°C) from Worldclim |
| Bio6 | Minimum temperature of the warmest month (°C) from Worldclim |
| Bio7 | Temperature annual range (°C) from Worldclim |
| Bio9 | Mean temperature of the driest three-month period (°C) from Worldclim |
| Bio11 | Mean temperature of the coldest three-month period (°C) from Worldclim |
| Bio12 | Total annual precipitation (mm) from Worldclim |
| CFmin | Minimum cloud forest elevation (m) |
| ELEVmax | Maximum watershed elevation (km) |
| Frost | Average number of days per year with hourly temperatures ≤ 0° (d·yr-1) |
| Frostmin1 | | Minimum frost frequency (d·yr-1) defining lower boundary for subalpine or mixed TMCF (transitional to alpine or other higher elevation vegetation |
| Frostmin2 | Minimum frost frequency (d·yr-1) defining lower boundary for alpine or other higher elevation vegetation, including páramo |
| LCL | Lifting Condensation Level (m) |
| Region, R | Modeling Region |
| RH | Average annual hourly Relative Humidity (%) |
| RH150 | Base Relative Humidity (RH), i.e. average RH from 100 to 150m elevation (%) |
| RHd | Current RH minus RH in a future scenario (%) |
| RHmin | Subregional minimum cloud forest RH |