**Table S:** Bioclimatic variables

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| Short name | Longname | Unit |
| Chelsa\_bio | mean annual air temperature | °C |
| Chelsa\_b\_1 | mean diurnal air temperature range | °C |
| Chelsa\_b\_2 | Isothermality | °C |
| Chelsa\_b\_3 | temperature seasonality | °C/100 |
| Chelsa\_b\_4 | mean daily maximum air temperature of the warmest month | °C |
| Chelsa\_b\_5 | mean daily minimum air temperature of the coldest month | °C |
| Chelsa\_b\_6 | annual range of air temperature | °C |
| Chelsa\_b\_7 | mean daily mean air temperatures of the wettest quarter | °C |
| Chelsa\_b\_8 | mean daily mean air temperatures of the driest quarter | °C |
| Chelsa\_b\_9 | mean daily mean air temperatures of the warmest quarter | °C |
| Chelsa\_b\_10 | mean daily mean air temperatures of the coldest quarter | °C |
| Chelsa\_b\_11 | annual precipitation amount | kg m-2 |
| Chelsa\_b\_12 | precipitation amount of the wettest month | kg m-2 |
| Chelsa\_b\_13 | precipitation amount of the driest month | kg m-2 |
| Chelsa\_b\_14 | precipitation seasonality | kg m-2 |
| Chelsa\_b\_15 | mean monthly precipitation amount of the wettest quarter | kg m-2 |
| Chelsa\_b\_16 | mean monthly precipitation amount of the driest quarter | kg m-2 |
| Chelsa\_b\_17 | mean monthly precipitation amount of the warmest quarter | kg m-2 |
| Chelsa\_b\_18 | mean monthly precipitation amount of the coldest quarter | kg m-2 |