Supporting information for Mire microclimate: groundwater buffers temperature in waterlogged versus dry soils

Table S1: Results of the t-tests comparing the paired waterlogged-dry soil bioclimatic variables. Analysis performed with full-year, contemporaneous data series (2015-2017).

| Trait | t.statistic | t.p.value | t.estimate | t.conf.int.1. | t.conf.int.2. |
| --- | --- | --- | --- | --- | --- |
| Annual range | -3.609308 | 0.005620137 | -5.1431459 | -Inf | -2.374177 |
| Diurnal range | -2.643586 | 0.019178024 | -2.2947974 | -Inf | -0.607996 |
| Summer max | -2.737935 | 0.016914088 | -4.3721276 | -Inf | -1.269120 |
| Winter min | 2.730278 | 0.017086713 | 0.7710183 | 0.2222728 | Inf |

Table S2: Results of the linear models predicting the soil bioclimatic variables from the CHELSA air temperatures, per bioclimatic variable and groundwater situation. RMSE is the root-mean-square error, a measure of the accuracy of the predictions (lower values indicate higher accuracy). Analysis performed with full-year, contemporaneous data series (2015-2017).

| Variable | Groundwater | t | df | p | Pearson's r | RMSE (ºC) |
| --- | --- | --- | --- | --- | --- | --- |
| Annual range | Dry | 0.180 | 5 | 0.865 | 0.08 | 3.68 |
| Annual range | Waterlogged | 0.424 | 5 | 0.689 | 0.19 | 3.90 |
| Diurnal range | Dry | 0.489 | 5 | 0.645 | 0.21 | 3.03 |
| Diurnal range | Waterlogged | 2.359 | 5 | 0.065 | 0.73 | 4.47 |
| Summer max | Dry | 2.213 | 5 | 0.078 | 0.70 | 6.92 |
| Summer max | Waterlogged | 0.970 | 5 | 0.376 | 0.40 | 3.68 |
| Winter min | Dry | 6.774 | 5 | 0.001 | 0.95 | 4.35 |
| Winter min | Waterlogged | 6.812 | 5 | 0.001 | 0.95 | 5.06 |