**Table S2.** Summary of Monte-Carlo tests of RLQ models of ponds

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | Functional traits selected | Predictors selected | Standard observed | P-value |
| Local environmental descriptors – global model | All traits | All predictors | 3.021 | 0.02 |
| Local environmental descriptors – fitted model | BH; BL; BW; TMW; DFH; VFH; NTR; ODP; MS; ES; SL; SW; ND; IED; Fl; EP;SP; NP | Depth; water pH; water temperature; water onductivity; pond vegetation | 3.687 | 0.001 |
| Landscape descriptors – global model | All traits | All predictors | 1.523 | 0.06 |
| Landscape descriptors – fitted model | BH; BL; BW; TMW; DFH; VFH; NTR; ODP; MS; ES; SL; SW; ND; IED; Fl; EP; SP; NP | Forest; agriculture; pasture; urban; edge dist.; types of land use | 1.051 | 0.15 |