**Table S13: p-values of post-hoc tests for differences between the mean Index C and vegetation types (top) and Index C and horizons within the same vegetation type (bottom), p<0.05 indicates a significant relationship at the 95% confidence level (bold values), con= coniferous trees, dec= deciduous trees, grass= grasslands, L: litter, Ah1= topsoil 1 (0-3 cm), Ah2= topsoil 2 (3-10 cm), grey numbers indicate no significant differences in ANOVA.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Vegetation types** | | | |
|  | **L** | **Ah1** | **Ah2** |
| con-dec | **2.0e-6** | **1.1e-5** | **0.02** |
| con-grass | - | **5.6e-05** | **0.0008** |
| dec-grass | - | 0.45 | 0.14 |
| **Horizons** | | | |
|  | **con** | **dec** | **grass** |
| L-Ah1 | 0.25 | 0.1 | - |
| L-Ah2 | 0.25 | **0.005** | - |
| Ah1-Ah2 | 0.25 | 0.44 | 0.19 |