Supplementary file 1

Lichen species list\*

Table showing the contribution (%) of different lichen species within the different stand types (e.g. how much of the lichen cover in 15 year *Pinus contorta* stands is comprised of a certain lichen species/species group). Numbers within brackets show the actual mean cover (%) of the different lichen species/species groups in the different stand types. Due to a minor change in inventory procedure after the first inventoried stand, the added cover of lichens (4.7%) in 15 year old *P. sylvestris* stands does not add up to the total cover given in the text (5.2%).

|  |  |
| --- | --- |
| Lichen species/ | Lichen species cover (%) of total lichen cover within tree species and age class |
| species group | *Pinus contorta* Dougl. var. *latifolia* Engelm. | *Picea abies* (L.) Karst. | *Pinus sylvestris* L. |
|   | 15 | 30 | 85 | 15 | 30 | 85 | 15 | 30 | 85 |
| *Cladonia arbuscula* (Wallr.) Flot. (including *C. mitis* Sandst.) | 11.7 (0.09) | 11.4 (0.12) | 0 | 5.6 (0.04) | 23 (0.12) | 19.2 (0.06) | 21.8 (1.02) | 37.8 (1.04) | 32.9 (0.36) |
| *Cladonia rangiferina* (L.) F.H. Wigg. | 24.1 (0.18) | 45.5 (0.47) | 0 | 7.1 (0.05) | 32.7 (0.18) | 43.6 (0.14) | 37.1 (1.74) | 38.1 (1.05) | 59.8 (0.65) |
| *Caldonia stellaris* (Opiz) Pouzar. ex Vezda. | 0 | 0.8 (0.01) | 0 | 0 | 0 | 0.6 (<0.01) | 0 | 0 | 0 |
| *Cladonia* spp. P. Browne | 60.3 (0.45) | 37.9 (0.39) | 0 | 87.1 (0.60) | 37.5 (0.20) | 14 (0.05) | 35.9 (1.69) | 21.6 (0.60) | 5.7 (0.06) |
| *Nephroma arcticum* (L.) Torss. | 0 | 3.7 (0.04) | 0 | 0.3 (<0.01) | 3.9 (0.02) | 18 (0.06) | 1.7 (0.08) | 1.6 (0.05) | 1.6 (0.02) |
| *Peltigera aphthosa* (L.) Willd. | 0.7 (0.01) | 0.7 (0.01) | 0 | 0 | 2.6 (0.01) | 4.7 (0.02) | 3 (0.14) | 0.9 (0.03) | 0 |
| *Stereocaulon* spp. Hoffm. | 3.3 (0.02) | 0 | 0 | 0 | 0.3 (<0.01) | 0 | 0.4 (0.02) | 0 | 0 |

\*Lichens were registered by species except for species belonging to the genera *Cladonia* P. Browneand *Stereocaulon* Hoffm*.* For the genus *Cladonia*, we only separated *C. arbuscula* (Wallr.) Flot.(including occurrences of *C. mitis* Sandst.), *C. rangiferina* (L.) F.H. Wigg. and *C. stellaris* (Opiz) Pouzar & Vězda, as individual species (due to their importance for reindeer husbandry), while all other *Cladonia* species were collectively recorded as *Cladonia* spp. The genus *Stereocaulon* is mainly represented by *Stereocaulon paschale* (L.) Hoffm., but also by some single specimens of *S. vesuvianum* Pers.,and possibly also single specimens of other species and is therefore recorded together as *Stereocaulon* spp.