

Supplementary Material

Tab.S1 - Species of vascular plants inhabiting decaying logs in the Karkonosze Mts. (Poland).

<i>Acer pseudoplatanus</i> L.	<i>Impatiens parviflora</i> DC
<i>Alliaria petiolata</i> (M. Bieb) Cavara & Grande	<i>Lamiastrum galeobdolon</i> (L.) Ehrend & Polatschek
<i>Athyrium distentifolium</i> Tausch ex Opiz	<i>Larix decidua</i> Mill
<i>Betula pendula</i> Roth	<i>Luzula luzuloides</i> (Lam.) Dandy & Wilmott
<i>Calamagrostis arundinacea</i> (L) Roth	<i>Luzula sylvatica</i> (Huds.) Gaudin
<i>Calamagrostis villosa</i> (Chaix) J.F.Gmel.	<i>Lycopodium annotinum</i> L.
<i>Calluna vulgaris</i> (L.) Hull	<i>Maianthemum bifolium</i> (L.)F.W. Schmidt
<i>Carex sylvatica</i> Huds.	<i>Mercurialis perennis</i> L.
<i>Convallaria maialis</i> L.	<i>Mycelis muralis</i> (L.) Dumort.
<i>Deschampsia caespitosa</i> (L.)P. Beauv.	<i>Oxalis acetosella</i> L.
<i>Deschampsia flexuosa</i> (L.) Trin.	<i>Phegopteris connectilis</i> (Michx.) Watt
<i>Digitalis purpurea</i> L.	<i>Picea abies</i> (L.) H. Karst.
<i>Dryopteris carthusiana</i> (Vill.) H.P. Fuchs	<i>Poa nemoralis</i> L.
<i>Dryopteris dilatata</i> (Hoffm.)A. Gray	<i>Polygonatum verticillatum</i> (L.) All.
<i>Dryopteris expansa</i> (C.Presl) Fraser-Jenk, Jermy	<i>Prenanthes purpurea</i> L.
<i>Dryopteris filix-mas</i> (L.) Schott	<i>Rubus idaeus</i> L.
<i>Dryopteris</i> sp	<i>Rubus</i> sp
<i>Fagus sylvatica</i> L.	<i>Senecio nemorensis</i> L.
<i>Galeopsis pubescens</i> Besser	<i>Sorbus aucuparia</i> L. Emend. Hedl/
<i>Galium saxatile</i> L.	<i>Urtica dioica</i>
<i>Gymnocarpium dryopteris</i> (L.) Newmann	<i>Trientalis europea</i> L.
<i>Hedera helix</i> L.	<i>Vaccinium myrtillus</i> L.
<i>Homogyne alpina</i> (L.) Cass.	<i>Vaccinium vitis-idea</i> L.

Tab. S2 - The description of used models of GLM. The best fitted models are in bold. AIC – Akaike information criterion.

Response variable	Type of model	AIC
colonization of beech logs	~ALTITUDE+DECOMPOSITION+LENGTH+BRYOPHYTES	142.76
	~ALTITUDE+SHADE+DECOMPOSITION+AREA+LENGTH+MOISTURE+DIAMETER+BRYOPHYTES	134.74
	~ALTITUDE+SHADE+DECOMPOSITION+LENGTH+MOISTURE+DIAMETER+BRYOPHYTES	134.27
	~ALTITUDE+SHADE+DECOMPOSITION+LENGTH+DIAMETER+BRYOPHYTES	132.59
	~ALTITUDE+DECOMPOSITION+LOWER+BRYOPHYTES	131.75
	~DECOMPOSITION+LOWER+BRYOPHYTES	131.14
	~ALTITUDE+DECOMPOSITION+LENGTH+DIAMETER+BRYOPHYTES	130.61
	~ALTITUDE+DECOMPOSITION+DIAMETER+BRYOPHYTES	129.18
	~DIAMETER+BRYOPHYTES)	128.55
	~DECOMPOSITION+DIAMETER+BRYOPHYTES)	128.53
	~ALTITUDE+DECOMPOSITION+UPPER+BRYOPHYTES	128.19
	~DECOMPOSITION+UPPER+BRYOPHYTES	127.17
	colonization of spruce logs	~ALTITUDE+SHADE+DECOMPOSITION+UPPER+LOWER+AREA+LENGTH+MOISTURE+DIAMETER+BRYOPHYTES
~ALTITUDE+DECOMPOSITION+AREA+DIAMETER+BRYOPHYTES		278.3
~ALTITUDE+DECOMPOSITION+LOWER+BRYOPHYTES		276.9
~ALTITUDE+DECOMPOSITION+BRYOPHYTES		276.56
~ALTITUDE+DECOMPOSITION+AREA+LENGTH+UPPER+BRYOPHYTES		275.53
~ALTITUDE+DECOMPOSITION+AREA+LENGTH+BRYOPHYTES		275.49
~ALTITUDE+SHADE+DECOMPOSITION+AREA+LENGTH+DIAMETER+BRYOPHYTES		275.25
~ALTITUDE+DECOMPOSITION+LENGTH+UPPER+BRYOPHYTES		275.16
~ALTITUDE+DECOMPOSITION+LENGTH+DIAMETER+BRYOPHYTES		274.67
~ALTITUDE+DECOMPOSITION+LENGTH+LOWER+BRYOPHYTES		274.29
~ALTITUDE+DECOMPOSITION+LENGTH+BRYOPHYTES		273.56