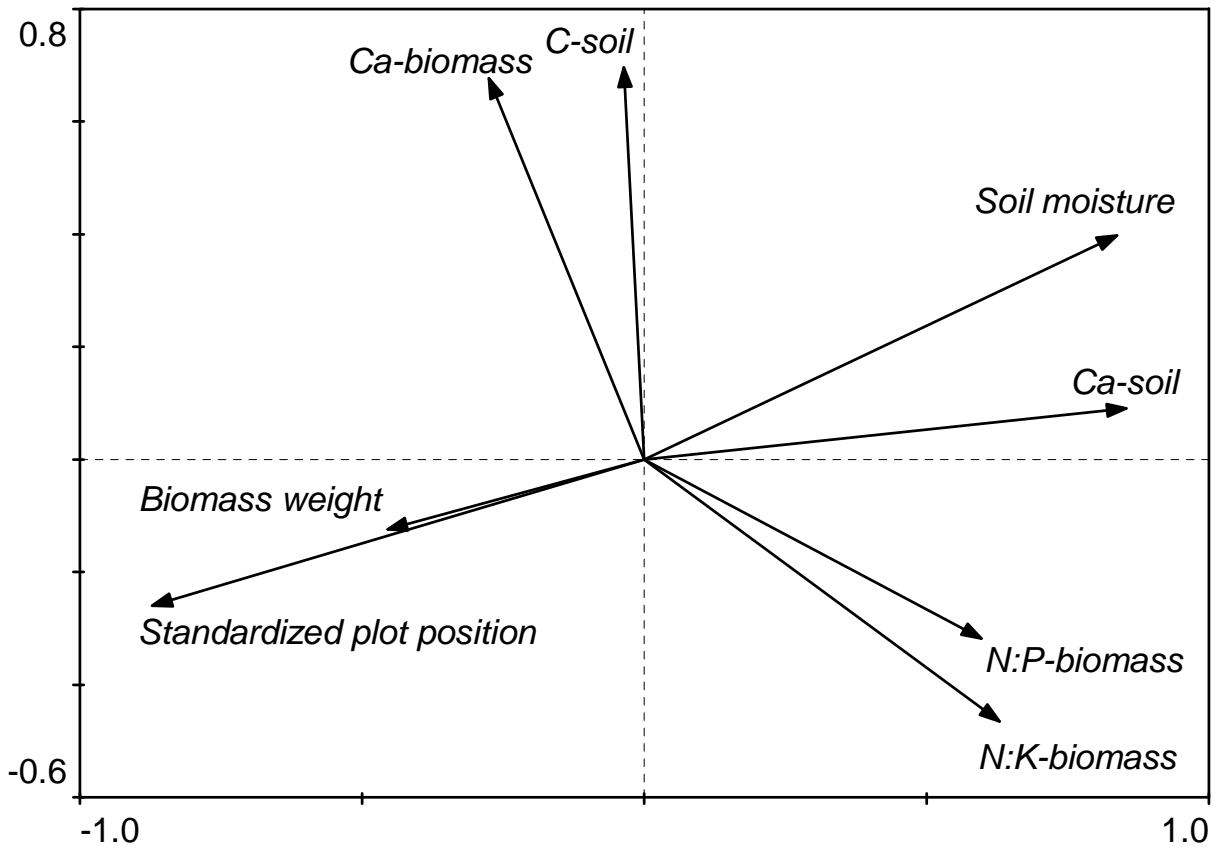


Hettenbergerová E., Hájek M., Zelený D., Jiroušková J. & Mikulášková E. (2013): Changes in species richness and species composition of vascular plants and bryophytes along a moisture gradient. – Preslia 85: 369–388.

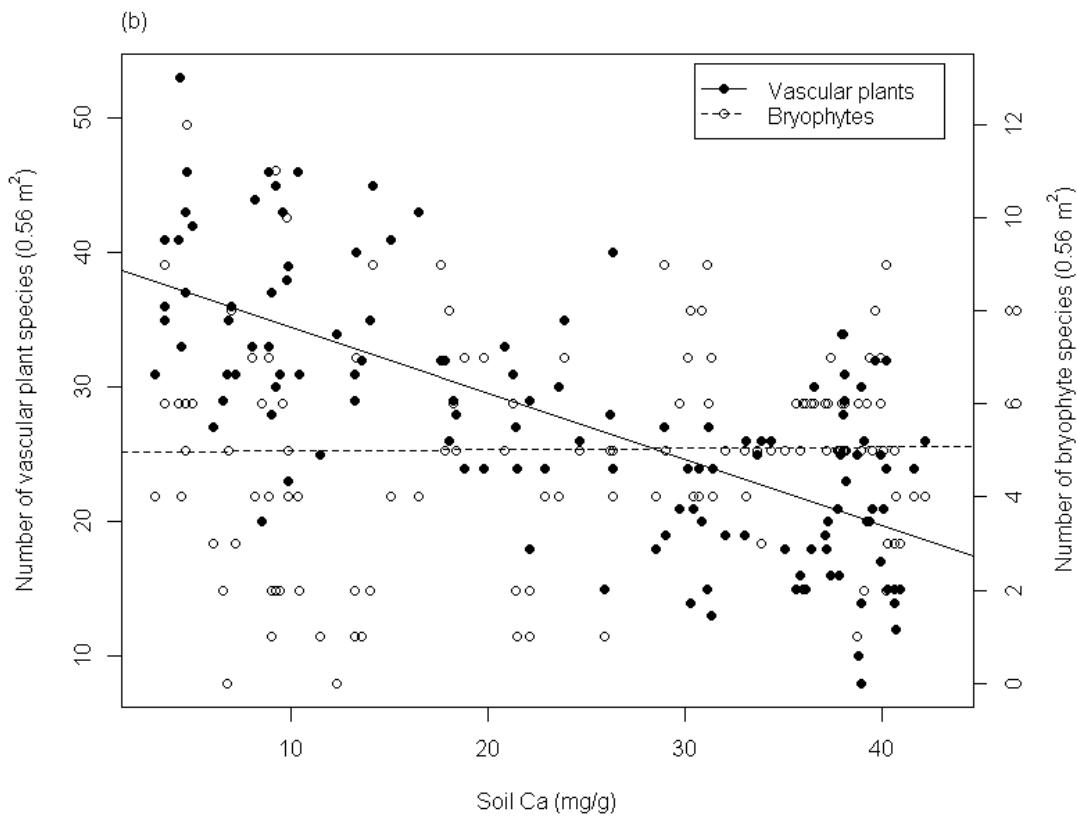
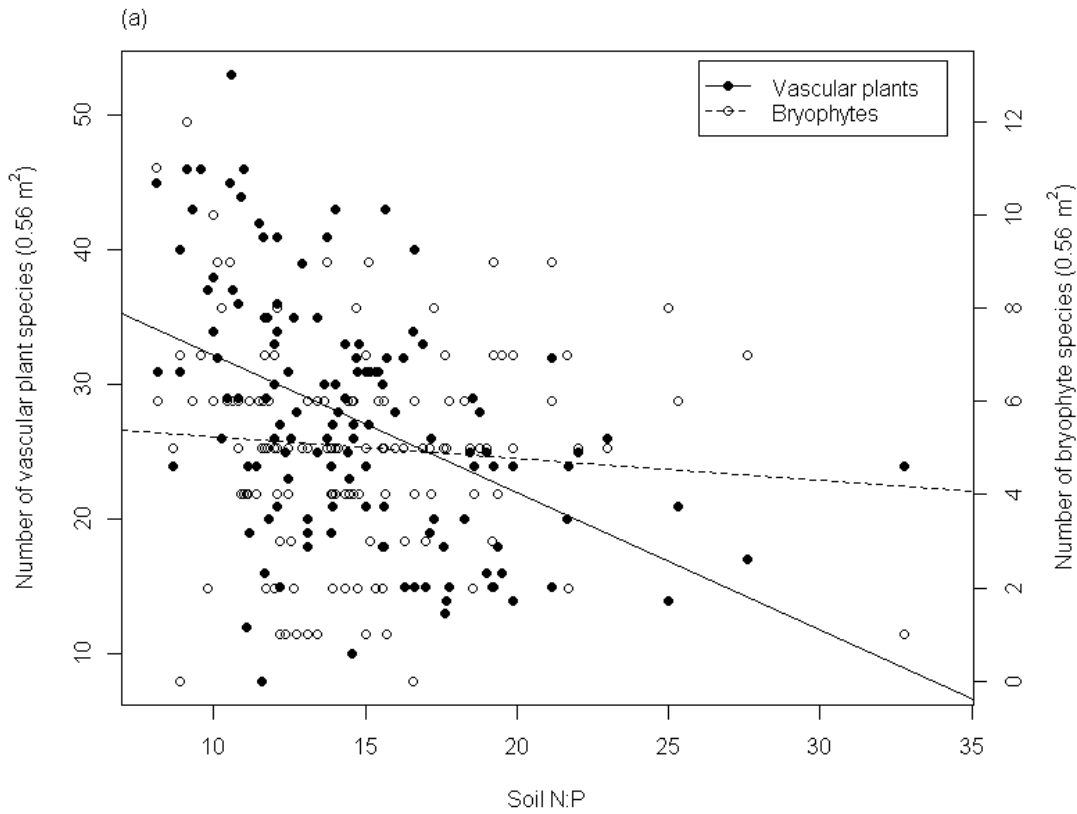
Electronic Appendix 1. – Descriptive statistic of all variables.

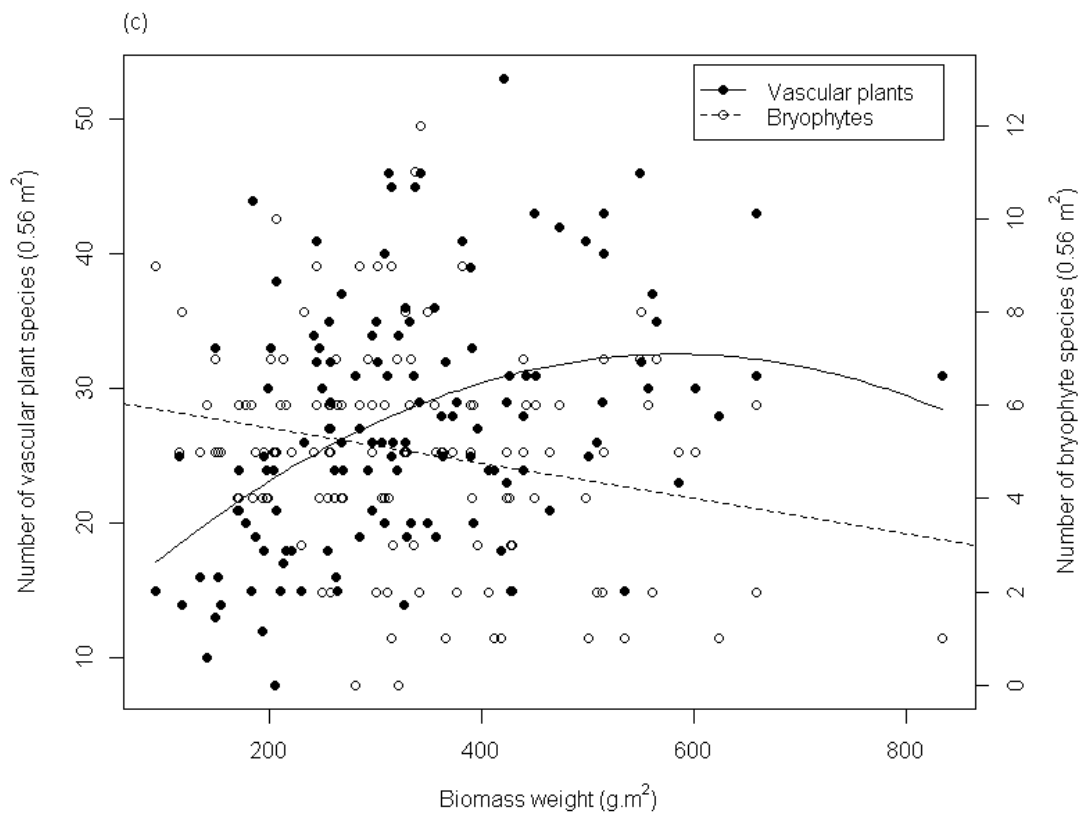
	Minimum	Lower quartile	Median	Mean	Upper quartile	Maximum	Standard deviation
Number of species							
Vascular plants	8	20	26.5	27.37	33	53	9.17
Bryophytes	0	4	5	5.032	6	13	2.37
Soil							
Moisture (%)	18.8	37.13	63.83	60.18	85.02	98.28	26.38
C (%)	3.32	8.47	10.05	11.7	14.34	30.36	5.11
Ca (mg/g)	3.1	10.4	26.3	24.4	37.6	42.2	13.03
Biomass							
Weight (g/m ²)	92.8	234.6	313.6	331.2	416.0	833.6	134.4
Ca (%)	0.35	0.69	0.855	0.916	1.068	1.97	0.3
N:P	8.11	11.79	14.04	14.72	16.97	32.75	4.12
N:K	0.45	0.61	0.695	0.713	0.78	1.3	0.14

Electronic Appendix 2. – Principal component analysis (PCA) diagram of environmental data used in analyses.



Electronic Appendix 3. – Relationship between species density of vascular plants and bryophytes and measured variables: N:P ratio (a), soil calcium (b) and vascular plant biomass weight (c). The regression for vascular plants in graph (c) was fitted by polynomial regression, another variables by linear regression.





Electronic Appendix 4. – Species names, their abbreviations, and taxa included in species aggregates.

Abbreviation	Species name	Included species
Vascular plants		
Ace cam	<i>Acer campestre</i>	
Ace pse	<i>Acer pseudoplatanus/platanoides</i>	
Agr cap	<i>Agrostis capillaris</i>	
Agr eup	<i>Agrimonia eupatoria</i>	
Agr sto	<i>Agrostis stolonifera</i>	
Ach mil	<i>Achillea millefolium</i> agg.	<i>A. collina</i> , <i>A. millefolium</i> , <i>A. pannonica</i> , <i>A. pratensis</i>
Aju rep	<i>Ajuga reptans</i>	
Alc vul	<i>Alchemilla vulgaris</i> s.lat.	<i>A. baltica</i> , <i>A. crinita</i> , <i>A. flabellata</i> , <i>A. glabra</i> , <i>A. glaucescens</i> , <i>A. micans</i> , <i>A. monticola</i> , <i>A. suavis</i> , <i>A. subcrenata</i> , <i>A. vulgaris</i> , <i>A. xanthochlora</i>
All sco	<i>Allium scorodoprasum</i>	
Ant odo	<i>Anthoxanthum odoratum</i>	
Ant ram	<i>Anthericum ramosum</i>	
Aqu vul	<i>Aquilegia vulgaris</i>	
Arr ela	<i>Arrhenatherum elatius</i>	
Ave pub	<i>Avenula pubescens</i>	
Bet off	<i>Betonica officinalis</i>	
Bet pen	<i>Betula pendula</i>	
Bra pin	<i>Brachypodium pinnatum</i>	
Bri med	<i>Briza media</i>	
Bro ere	<i>Bromus erectus</i>	
Cal epi	<i>Calamagrostis epigejos</i>	
Cam glo	<i>Campanula glomerata</i>	
Car bet	<i>Carpinus betulus</i>	
Car car	<i>Carex caryophyllea</i>	
Car dav	<i>Carex davalliana</i>	
Car dis	<i>Carex distans</i>	
Car flac	<i>Carex flacca</i>	
Car flav	<i>Carex flava</i>	
Car hir	<i>Carex hirta</i>	
Car lep	<i>Carex lepidocarpa</i>	
Car mon	<i>Carex montana</i>	
Car nig	<i>Carex nigra</i>	
Car pal	<i>Carex pallescens</i>	
Car pane	<i>Carex panicea</i>	
Car panu	<i>Carex paniculata</i>	
Car tom	<i>Carex tomentosa</i>	
Cen jac	<i>Centaurea jacea</i> agg.	<i>C. jacea</i> , <i>C. oxylepis</i>
Cir arv	<i>Cirsium arvense</i>	
Cir can	<i>Cirsium canum</i>	
Cir ole	<i>Cirsium oleraceum</i>	
Cir pan	<i>Cirsium pannonicum</i>	
Cir riv	<i>Cirsium rivulare</i>	
Col aut	<i>Colchicum autumnale</i>	
Cra spe	<i>Crataegus</i> species	<i>C. levigata</i> agg., <i>C. monogyna</i>
Cre pal	<i>Crepis paludosa</i>	
Cru ver	<i>Cruciata verna</i>	
Dac glo	<i>Dactylis glomerata</i>	
Dac inc	<i>Dactylorhiza incarnata</i>	
Dac maj	<i>Dactylorhiza majalis</i>	
Dan dec	<i>Danthonia decumbens</i>	
Des ces	<i>Deschampsia cespitosa</i>	
Dor her	<i>Dorycnium herbaceum</i>	

Epi pal	Epipactis palustris	
Equ arv	Equisetum arvense	
Equ flu	Equisetum fluviatile	
Equ pal	Equisetum palustre	
Equ tel	Equisetum telmateia	
Eri ang	Eriophorum angustifolium	
Eri lat	Eriophorum latifolium	
Eup can	Eupatorium cannabinum	
Eup cyp	Euphorbia cyparissias	
Fes pra	Festuca pratensis	
Fes rub	Festuca rubra	
Fes rup	Festuca rupicola	
Fil vul	Filipendula vulgaris	
Fra exc	Fraxinus excelsior	
Fra vir	Fragaria viridis	
Gal alb	Galium album	
Gal ver	Galium verum	
Ger pal	Geranium palustre	
Gle hed	Glechoma hederacea	
Hel gra	Helianthemum grandiflorum ssp. obscurum	
Hol lan	Holcus lanatus	
Hyp mac	Hypericum maculatum	
Hyp tet	Hypericum tetrapterum	
Inu sal	Inula salicina	
Jun art	Juncus articulatus	
Jun inf	Juncus inflexus	
Kna arv	Knautia arvensis agg.	K. arvensis, K. kitaibelii
Lat pra	Lathyrus pratensis	
Leo his	Leontodon hispidus	
Leu vul	Leucanthemum vulgare agg.	L. ircutianum, L. margaritae, L. vulgare subsp. vulgare
Lin cat	Linum catharticum	
Lot cor	Lotus corniculatus	
Lot mar	Lotus maritimus	
Luz cam	Luzula campestris agg.	L. campestris, L. divulgata, L. multiflora
Lyc eur	Lycopus europaeus	
Lys num	Lysimachia nummularia	
Lys vul	Lysimachia vulgaris	
Lyt sal	Lythrum salicaria	
Med lup	Medicago lupulina	
Men arv	Mentha arvensis	
Men lon	Mentha longifolia	
Mol aru	Molinia arundinacea	
Myo pal	Myosotis palustris agg.	M. brevisetacea, M. nemorosa, M. palustris subsp. laxiflora
Pim sax	Pimpinella saxifraga ssp. saxifraga	
Pin spe	Pinus species	P. nigra, P. sylvestris
Pla lan	Plantago lanceolata	
Pla med	Plantago media	
Poa pra	Poa pratensis	
Pol ama	Polygala amarella	
Pol cmv	Polygala vulgaris agg.	P. comosa, P. multicaulis, P. vulgaris
Pot ere	Potentilla erecta	
Pot hep	Potentilla heptaphylla	
Pot rep	Potentilla reptans	
Pri ver	Primula veris	
Pru spe	Prunus species	P. avium, P. domestica, P. spinosa

Pru vul	Prunella vulgaris	
Ran acr	Ranunculus acris	
Ran pol	Ranunculus polyanthemos	
Ran rep	Ranunculus repens	
Ros spe	Rosa species	R. canina, R. dumalis, R. gallica
Rum ace	Rumex acetosa	
Sal pra	Salvia pratensis	
San min	Sanguisorba minor	
San off	Sanguisorba officinalis	
Sci syl	Scirpus sylvaticus	
Sec var	Securigera varia	
Suc pra	Succisa pratensis	
Tar sec	Taraxacum sect. Ruderalia	
Teu cha	Teucrium chamaedrys	
Thy pul	Thymus pulegioides	
Tra ori	Tragopogon orientalis	
Tri fla	Trisetum flavescens	
Tri med	Trifolium medium	
Tri mon	Trifolium montanum	
Tri pal	Triglochin palustris	
Tri pra	Trifolium pratense	
Tus far	Tussilago farfara	
Val dio	Valeriana dioica	
Val off	Valeriana officinalis agg.	V. officinalis, V. stolonifera subsp. angustifolia
Ver cha	Veronica chamaedrys	
Vic cra	Vicia cracca	
Vic ten	Vicia tenuifolia	
Vio spe	Viola species	V. arvensis, V. canina, V. hirta, V. odorata, V. pumila, V. reichenbachiana, V. riviniana, V. suavis

Bryophytes

Ane pin	Aneura pinguis	
Bra alb	Brachythecium albicans	
Bra riv	Brachythecium rivulare/rutabulum	
Bry pse	Bryum pseudotriquetrum	
Cal cus	Calliergonella cuspidata	
Cam ste	Campylium stellatum	
Cir pil	Cirriphyllum piliferum	
Cli den	Climacium dendroides	
Cra fil	Cratoneuron filicinum	
Cte mol	Ctenidium molluscum	
Fis adi	Fissidens adianthoides	
Fis dub	Fissidens dubius	
Fis tax	Fissidens taxifolius	
Hom lut	Homalothecium lutescens	
Oxy hia	Oxyrrhynchium hians	
Pal com	Palustriella commutata	
Phi cal	Philonotis calcarea	
Pla aff	Plagiomnium affine agg.	P. affine, P. elatum, P. ellipticum, P. medium
Pla und	Plagiomnium undulatum	
Pse pur	Pseudoscleropodium purum	
Rhy tri	Rhytidiadelphus triquetrus	
Thu ass	Thuidium assimile	
Wei spe	Weissia species	W. brachycarpa, W. controversa, W. longifolia, W. rostellata, W. rutilans, W. squarrosa
