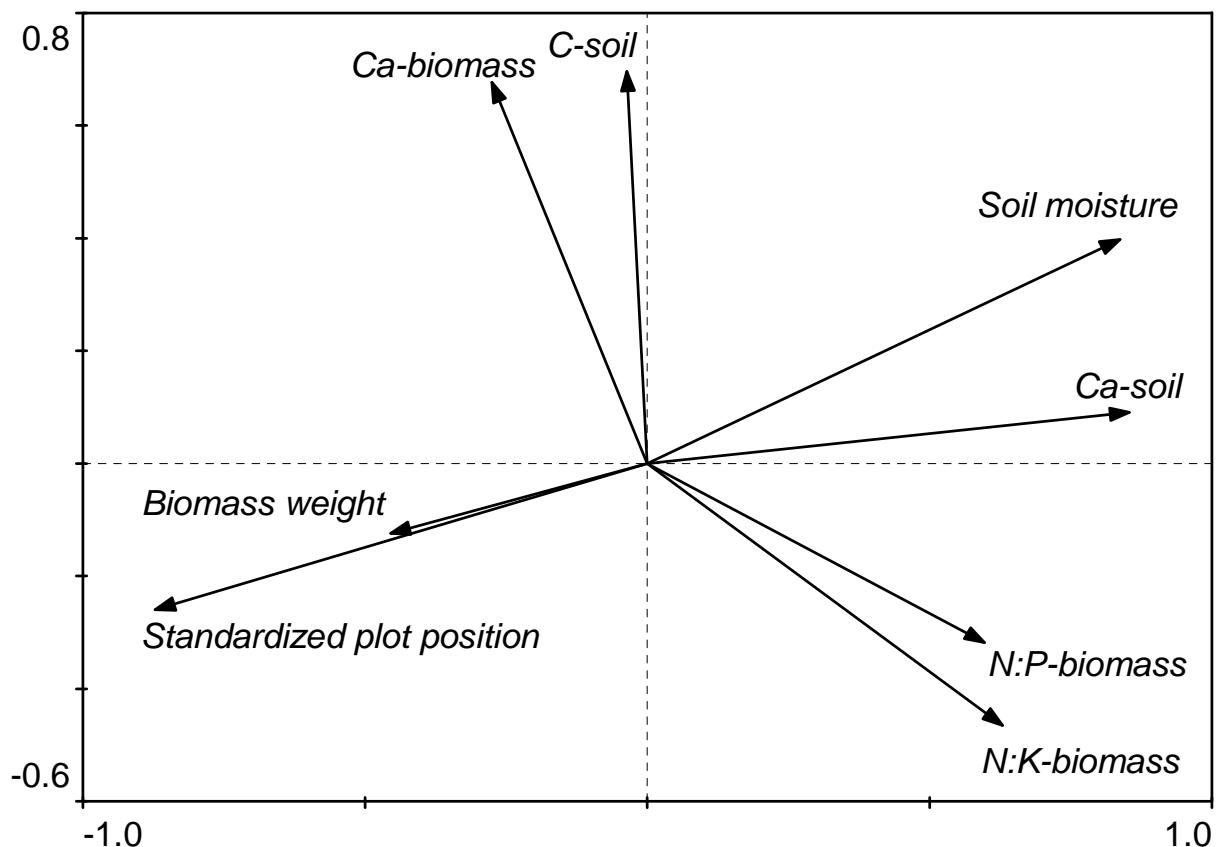


Hettenbergerová E., Hájek M., Zelený D., Jiroušková J. & Mikulášková E. (2013): Changes in species richness and species composition of vascular plants and bryophytes along a moisture gradient. – Preslia 85: 369–388.

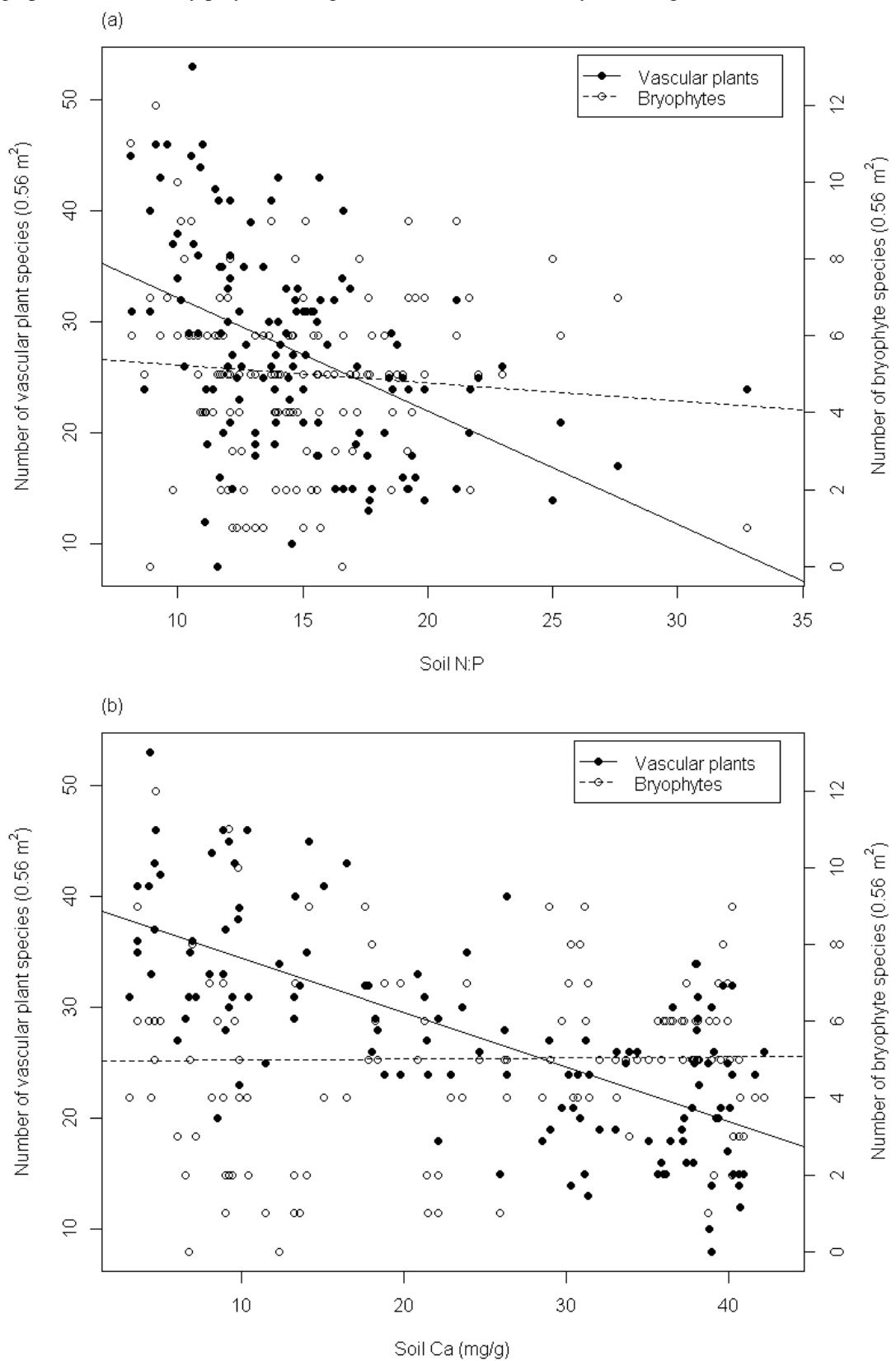
Electronic Appendix 1. – Descriptive statistic of all variables.

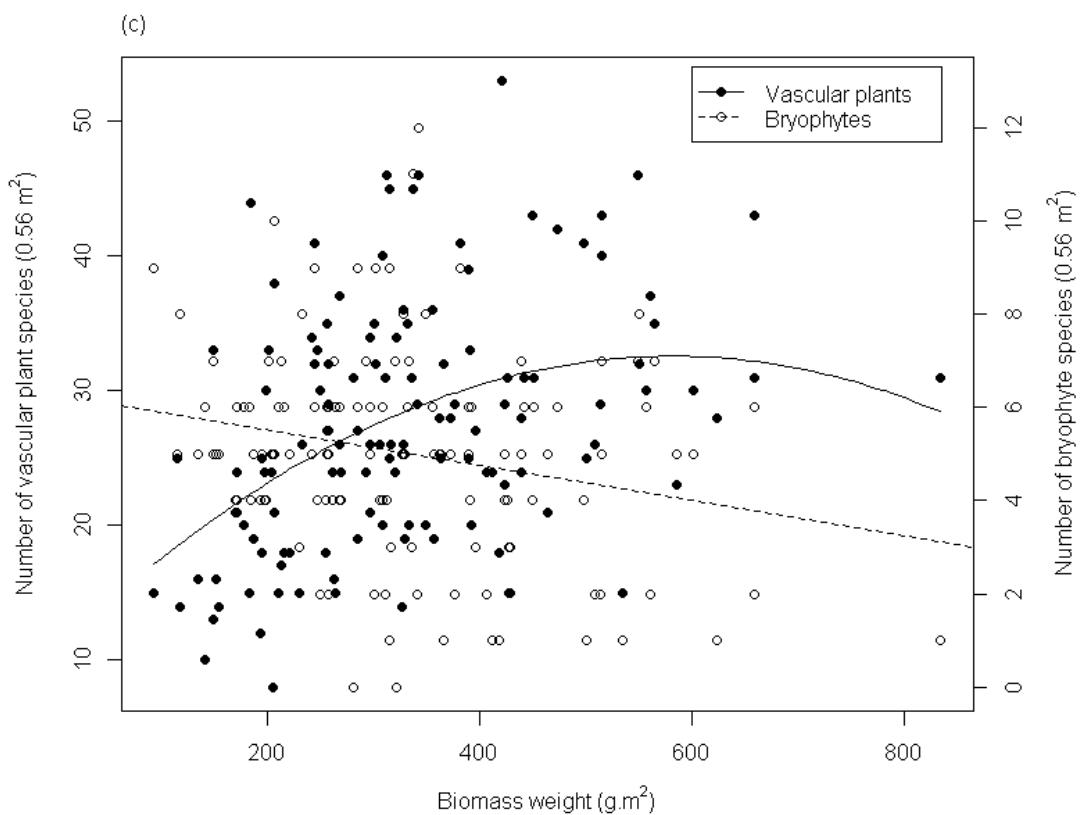
	Minimum	Lower quartile	Median	Mean	Upper quartile	Maximum	Standard deviation
Number of species							
Vascular plants	8	20	26.5	27.37	33	53	9.17
Bryophytes	0	4	5	5.032	6	13	2.37
Soil							
Moisture (%)	18.8	37.13	63.83	60.18	85.02	98.28	26.38
C (%)	3.32	8.47	10.05	11.7	14.34	30.36	5.11
Ca (mg/g)	3.1	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	<i>Epipactis palustris</i>
Equ arv	<i>Equisetum arvense</i>
Equ flu	<i>Equisetum fluviatile</i>
Equ pal	<i>Equisetum palustre</i>
Equ tel	<i>Equisetum telmateia</i>
Eri ang	<i>Eriophorum angustifolium</i>
Eri lat	<i>Eriophorum latifolium</i>
Eup can	<i>Eupatorium cannabinum</i>
Eup cyp	<i>Euphorbia cyparissias</i>
Fes pra	<i>Festuca pratensis</i>
Fes rub	<i>Festuca rubra</i>
Fes rup	<i>Festuca rupicola</i>
Fil vul	<i>Filipendula vulgaris</i>
Fra exc	<i>Fraxinus excelsior</i>
Fra vir	<i>Fragaria viridis</i>
Gal alb	<i>Galium album</i>
Gal ver	<i>Galium verum</i>
Ger pal	<i>Geranium palustre</i>
Gle hed	<i>Glechoma hederacea</i>
Hel gra	<i>Helianthemum grandiflorum</i> ssp. obscurum
Hol lan	<i>Holcus lanatus</i>
Hyp mac	<i>Hypericum maculatum</i>
Hyp tet	<i>Hypericum tetrapterum</i>
Inu sal	<i>Inula salicina</i>
Jun art	<i>Juncus articulatus</i>
Jun inf	<i>Juncus inflexus</i>
Kna arv	<i>Knautia arvensis</i> agg.
Lat pra	<i>Lathyrus pratensis</i>
Leo his	<i>Leontodon hispidus</i>
Leu vul	<i>Leucanthemum vulgare</i> agg.
Lin cat	<i>Linum catharticum</i>
Lot cor	<i>Lotus corniculatus</i>
Lot mar	<i>Lotus maritimus</i>
Luz cam	<i>Luzula campestris</i> agg.
Lyc eur	<i>Lycopus europaeus</i>
Lys num	<i>Lysimachia nummularia</i>
Lys vul	<i>Lysimachia vulgaris</i>
Lyt sal	<i>Lythrum salicaria</i>
Med lup	<i>Medicago lupulina</i>
Men arv	<i>Mentha arvensis</i>
Men lon	<i>Mentha longifolia</i>
Mol aru	<i>Molinia arundinacea</i>
Myo pal	<i>Myosotis palustris</i> agg.
Pim sax	<i>Pimpinella saxifraga</i> ssp. <i>saxifraga</i>
Pin spe	<i>Pinus</i> species
Pla lan	<i>Plantago lanceolata</i>
Pla med	<i>Plantago media</i>
Poa pra	<i>Poa pratensis</i>
Pol ama	<i>Polygala amarella</i>
Pol cmv	<i>Polygala vulgaris</i> agg.
Pot ere	<i>Potentilla erecta</i>
Pot hep	<i>Potentilla heptaphylla</i>
Pot rep	<i>Potentilla reptans</i>
Pri ver	<i>Primula veris</i>
Pru spe	<i>Prunus</i> species
	<i>K. arvensis</i> , <i>K. kitaibelii</i>
	<i>L. ircutianum</i> , <i>L. margaritae</i> , <i>L. vulgare</i> subsp. <i>vulgare</i>
	<i>L. campestris</i> , <i>L. divulgata</i> , <i>L. multiflora</i>
	<i>M. brevisetacea</i> , <i>M. nemorosa</i> , <i>M. palustris</i> subsp. <i>laxiflora</i>
	<i>P. nigra</i> , <i>P. sylvestris</i>
	<i>P. comosa</i> , <i>P. multicaulis</i> , <i>P. vulgaris</i>
	<i>P. avium</i> , <i>P. domestica</i> , <i>P. spinosa</i>

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

Bryophytes

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