

Hejda M., Sádlo J., Kutlvašr J., Petřík P., Vítková M., Vojík M., Pyšek P. & Pergl J. (2021)
Impact of invasive and native dominants on species richness and diversity of plant communities. – Preslia 93: 181–201.

Electronic appendices 1–2:

Electronic appendix 1. – Locations (WGS84) of plots where the vegetation with dominant taxa were sampled. Origin: A – alien, N – native; Plot size: 0/1 – only large plots available, 1/1 – small and large plots. Maps given below.

Dominant taxa	Origin	Latitude	Longitude	Plot size
<i>Aster novi-belgii</i> agg.	A	48.75	16.89	1/1
<i>Aster novi-belgii</i> agg.	A	48.85	17.14	1/1
<i>Aster novi-belgii</i> agg.	A	48.92	16.70	0/1
<i>Aster novi-belgii</i> agg.	A	49.22	16.50	0/1
<i>Aster novi-belgii</i> agg.	A	50.03	14.59	0/1
<i>Aster novi-belgii</i> agg.	A	50.04	14.50	0/1
<i>Aster novi-belgii</i> agg.	A	50.05	14.50	0/1
<i>Aster novi-belgii</i> agg.	A	50.06	14.52	1/1
<i>Aster novi-belgii</i> agg.	A	50.09	14.54	0/1
<i>Aster novi-belgii</i> agg.	A	50.78	15.24	0/1
<i>Calamagrostis epigejos</i>	N	49.69	17.03	0/1
<i>Calamagrostis epigejos</i>	N	49.70	15.74	1/1
<i>Calamagrostis epigejos</i>	N	49.70	15.76	1/1
<i>Calamagrostis epigejos</i>	N	49.81	13.42	1/1
<i>Calamagrostis epigejos</i>	N	49.99	14.40	1/1
<i>Calamagrostis epigejos</i>	N	50.00	14.17	0/1
<i>Calamagrostis epigejos</i>	N	50.03	14.58	1/1
<i>Calamagrostis epigejos</i>	N	50.03	14.59	1/1
<i>Calamagrostis epigejos</i>	N	50.09	14.29	1/1
<i>Calamagrostis epigejos</i>	N	50.13	14.15	1/1
<i>Calamagrostis epigejos</i>	N	50.15	14.56	0/1
<i>Calamagrostis epigejos</i>	N	50.56	14.66	0/1
<i>Cirsium arvense</i>	N	49.56	15.54	1/1
<i>Cirsium arvense</i>	N	49.56	15.56	1/1
<i>Cirsium arvense</i>	N	49.60	15.61	1/1
<i>Cirsium arvense</i>	N	49.70	15.75	1/1
<i>Cirsium arvense</i>	N	49.70	15.76	1/1
<i>Cirsium arvense</i>	N	49.81	16.13	1/1
<i>Cirsium arvense</i>	N	50.08	14.33	1/1
<i>Cirsium arvense</i>	N	50.56	14.66	0/1
<i>Cirsium arvense</i>	N	50.57	14.51	0/1
<i>Cirsium heterophyllum</i>	N	48.94	13.71	0/1
<i>Cirsium heterophyllum</i>	N	48.95	13.71	0/1
<i>Cirsium heterophyllum</i>	N	48.95	13.72	0/1

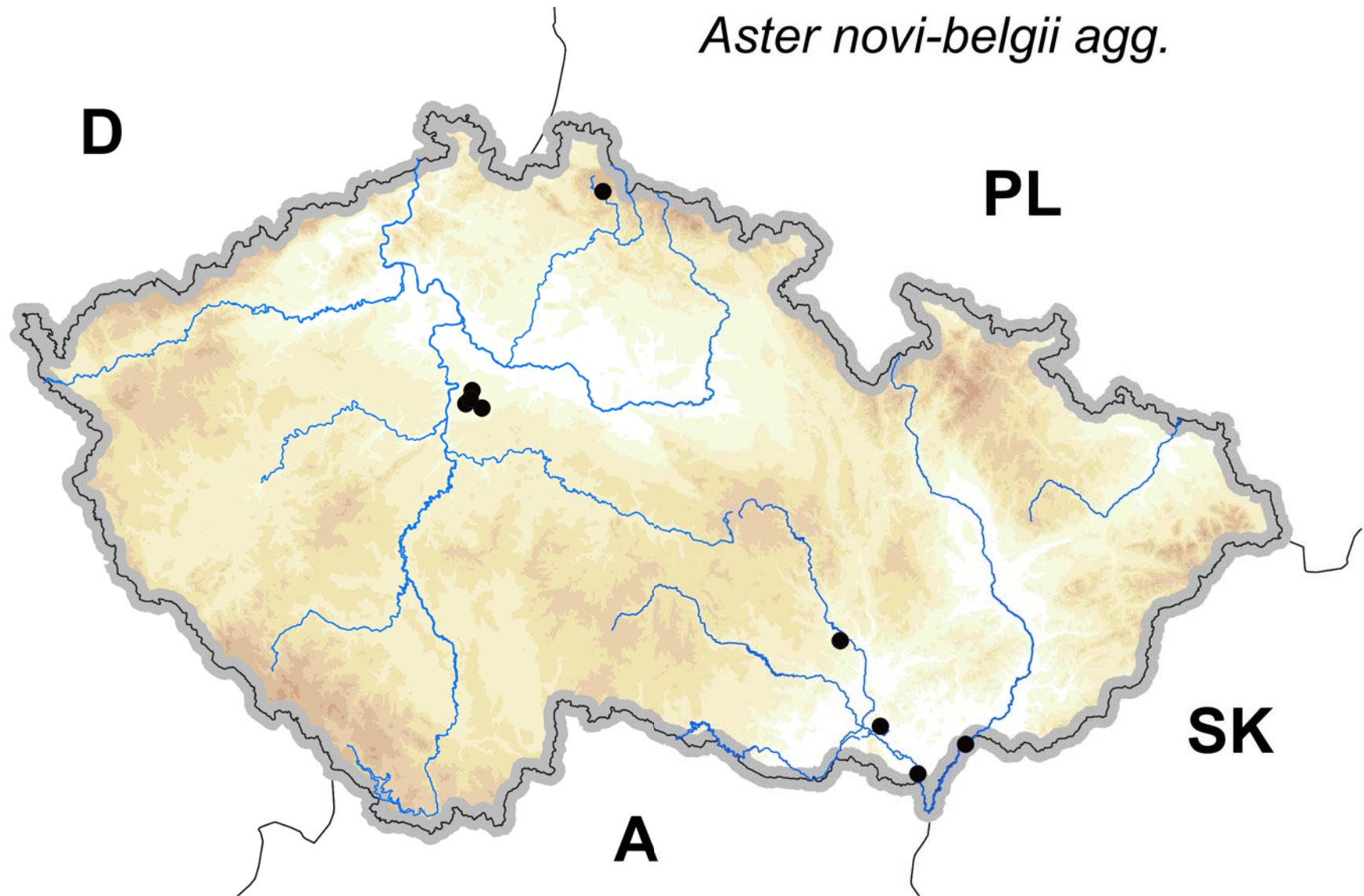
<i>Cirsium heterophyllum</i>	N	48.96	13.71	0/1
<i>Cirsium heterophyllum</i>	N	49.00	13.65	0/1
<i>Cirsium heterophyllum</i>	N	49.97	13.59	0/1
<i>Cirsium heterophyllum</i>	N	50.38	12.54	0/1
<i>Cirsium heterophyllum</i>	N	50.38	12.80	1/1
<i>Cirsium heterophyllum</i>	N	50.77	15.25	0/1
<i>Cirsium heterophyllum</i>	N	50.77	15.26	0/1
<i>Cirsium heterophyllum</i>	N	50.82	15.35	1/1
<i>Cirsium oleraceum</i>	N	49.56	15.73	1/1
<i>Cirsium oleraceum</i>	N	49.72	15.76	1/1
<i>Cirsium oleraceum</i>	N	50.11	13.94	1/1
<i>Cirsium oleraceum</i>	N	50.11	14.37	1/1
<i>Cirsium oleraceum</i>	N	50.21	16.40	1/1
<i>Cirsium oleraceum</i>	N	50.51	16.36	1/1
<i>Cirsium oleraceum</i>	N	50.55	16.26	1/1
<i>Cirsium oleraceum</i>	N	50.56	16.24	1/1
<i>Cirsium oleraceum</i>	N	50.75	15.23	1/1
<i>Filipendula ulmaria</i>	N	49.63	15.51	1/1
<i>Filipendula ulmaria</i>	N	49.69	15.78	1/1
<i>Filipendula ulmaria</i>	N	49.70	15.72	1/1
<i>Filipendula ulmaria</i>	N	49.70	15.78	1/1
<i>Filipendula ulmaria</i>	N	49.99	12.81	0/1
<i>Filipendula ulmaria</i>	N	50.01	12.59	0/1
<i>Filipendula ulmaria</i>	N	50.08	13.33	1/1
<i>Filipendula ulmaria</i>	N	50.60	14.50	0/1
<i>Filipendula ulmaria</i>	N	50.81	14.94	0/1
<i>Heracleum mantegazzianum</i>	A	49.83	13.75	1/1
<i>Heracleum mantegazzianum</i>	A	49.88	12.73	1/1
<i>Heracleum mantegazzianum</i>	A	49.99	14.55	1/1
<i>Heracleum mantegazzianum</i>	A	50.01	13.45	1/1
<i>Heracleum mantegazzianum</i>	A	50.05	12.81	0/1
<i>Heracleum mantegazzianum</i>	A	50.18	12.37	1/1
<i>Heracleum mantegazzianum</i>	A	50.24	13.74	1/1
<i>Heracleum mantegazzianum</i>	A	50.24	13.78	1/1
<i>Impatiens glandulifera</i>	A	48.90	14.39	1/1
<i>Impatiens glandulifera</i>	A	48.90	14.40	1/1
<i>Impatiens glandulifera</i>	A	49.16	15.06	1/1
<i>Impatiens glandulifera</i>	A	49.16	15.07	1/1
<i>Impatiens glandulifera</i>	A	49.17	15.06	1/1
<i>Impatiens glandulifera</i>	A	49.61	15.62	1/1
<i>Impatiens glandulifera</i>	A	49.70	14.87	0/1
<i>Impatiens glandulifera</i>	A	49.73	15.40	1/1
<i>Impatiens glandulifera</i>	A	49.76	14.75	0/1
<i>Impatiens glandulifera</i>	A	49.94	12.70	0/1
<i>Impatiens glandulifera</i>	A	49.94	12.71	0/1
<i>Impatiens glandulifera</i>	A	50.31	12.52	0/1

<i>Impatiens glandulifera</i>	A	50.35	14.47	0/1
<i>Impatiens glandulifera</i>	A	50.38	13.17	0/1
<i>Impatiens glandulifera</i>	A	50.57	15.06	1/1
<i>Impatiens glandulifera</i>	A	50.81	14.94	0/1
<i>Lupinus polyphyllus</i>	A	48.88	13.85	0/1
<i>Lupinus polyphyllus</i>	A	48.91	13.83	0/1
<i>Lupinus polyphyllus</i>	A	49.02	13.58	0/1
<i>Lupinus polyphyllus</i>	A	49.58	16.39	1/1
<i>Lupinus polyphyllus</i>	A	49.81	12.87	0/1
<i>Lupinus polyphyllus</i>	A	49.81	16.12	1/1
<i>Lupinus polyphyllus</i>	A	49.81	16.13	1/1
<i>Lupinus polyphyllus</i>	A	49.88	12.74	0/1
<i>Lupinus polyphyllus</i>	A	50.01	12.72	0/1
<i>Lupinus polyphyllus</i>	A	50.04	12.79	0/1
<i>Lupinus polyphyllus</i>	A	50.05	12.79	0/1
<i>Lupinus polyphyllus</i>	A	50.06	12.79	0/1
<i>Lupinus polyphyllus</i>	A	50.07	12.83	0/1
<i>Lupinus polyphyllus</i>	A	50.07	13.35	1/1
<i>Lupinus polyphyllus</i>	A	50.11	12.86	0/1
<i>Lupinus polyphyllus</i>	A	50.13	12.91	0/1
<i>Lupinus polyphyllus</i>	A	50.29	16.37	1/1
<i>Lupinus polyphyllus</i>	A	50.38	12.54	0/1
<i>Lupinus polyphyllus</i>	A	50.38	12.55	0/1
<i>Lupinus polyphyllus</i>	A	50.62	14.73	0/1
<i>Lupinus polyphyllus</i>	A	50.77	15.27	0/1
<i>Petasites hybridus</i>	N	49.44	18.26	1/1
<i>Petasites hybridus</i>	N	50.21	17.23	0/1
<i>Petasites hybridus</i>	N	50.64	15.54	0/1
<i>Petasites hybridus</i>	N	50.65	15.55	0/1
<i>Petasites hybridus</i>	N	50.78	15.24	1/1
<i>Petasites hybridus</i>	N	50.81	14.94	0/1
<i>Phalaris arundinacea</i>	N	48.77	16.80	0/1
<i>Phalaris arundinacea</i>	N	48.77	16.88	1/1
<i>Phalaris arundinacea</i>	N	48.83	13.79	0/1
<i>Phalaris arundinacea</i>	N	48.88	13.85	0/1
<i>Phalaris arundinacea</i>	N	48.95	13.69	0/1
<i>Phalaris arundinacea</i>	N	48.95	13.71	0/1
<i>Phalaris arundinacea</i>	N	48.96	13.70	0/1
<i>Phalaris arundinacea</i>	N	49.52	15.66	1/1
<i>Phalaris arundinacea</i>	N	49.73	15.87	1/1
<i>Phalaris arundinacea</i>	N	49.83	14.51	0/1
<i>Phalaris arundinacea</i>	N	49.88	12.74	0/1
<i>Phalaris arundinacea</i>	N	49.97	14.40	0/1
<i>Phalaris arundinacea</i>	N	50.00	14.00	1/1
<i>Phalaris arundinacea</i>	N	50.03	13.86	1/1
<i>Phalaris arundinacea</i>	N	50.04	13.92	1/1

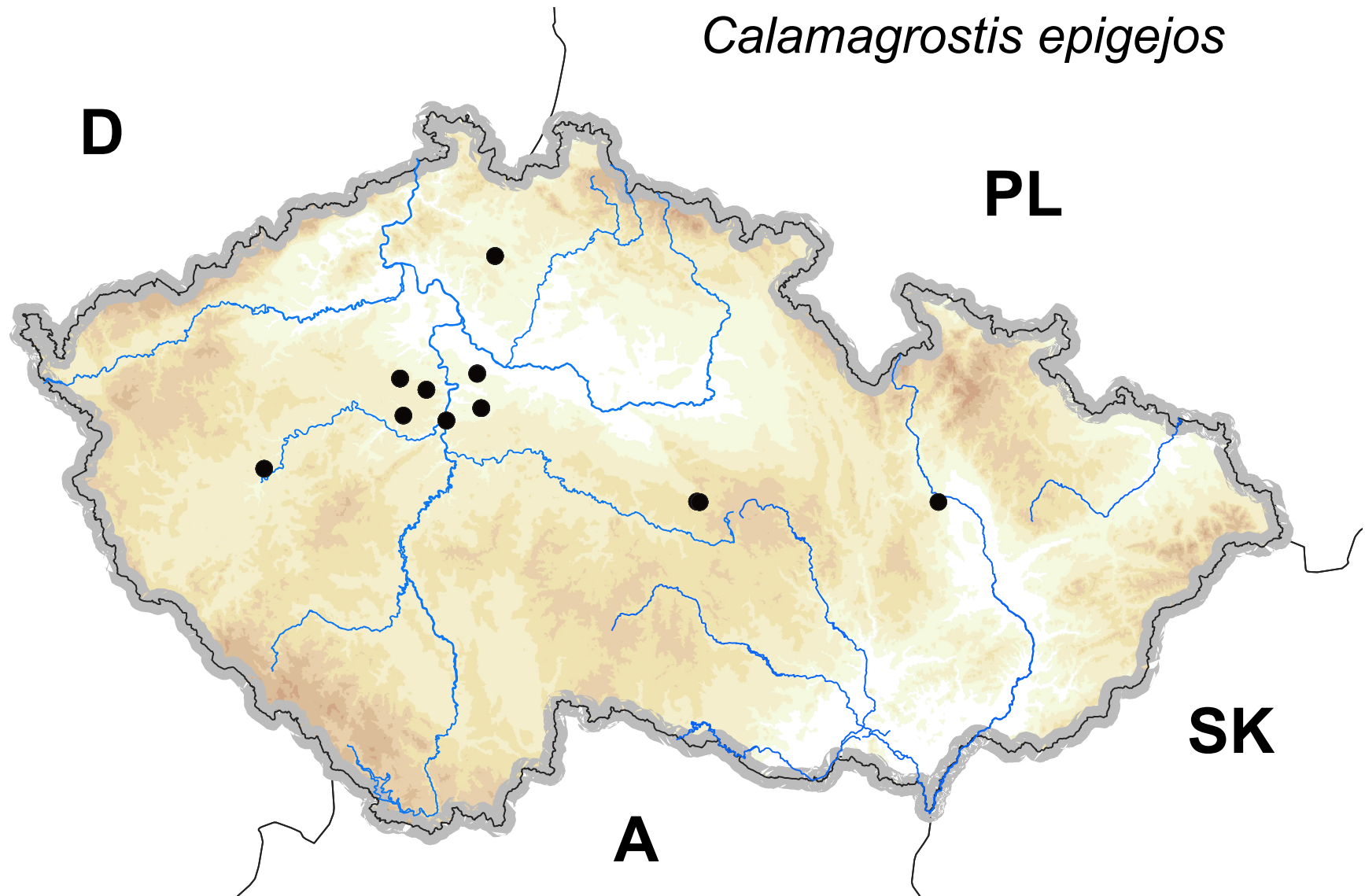
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<i>Reynoutria xbohemica</i>	A	49.56	15.56	1/1
<i>Reynoutria xbohemica</i>	A	49.94	14.30	0/1
<i>Reynoutria xbohemica</i>	A	50.08	14.33	0/1
<i>Reynoutria xbohemica</i>	A	50.38	12.51	0/1
<i>Reynoutria xbohemica</i>	A	50.40	14.87	1/1
<i>Reynoutria xbohemica</i>	A	50.60	15.16	0/1
<i>Reynoutria xbohemica</i>	A	50.82	14.93	0/1
<i>Reynoutria japonica</i>	A	49.96	14.39	0/1
<i>Reynoutria japonica</i>	A	50.12	14.08	0/1
<i>Reynoutria japonica</i>	A	50.14	14.00	0/1
<i>Reynoutria japonica</i>	A	50.20	12.81	0/1
<i>Reynoutria japonica</i>	A	50.60	13.47	0/1
<i>Reynoutria japonica</i>	A	50.76	15.27	0/1
<i>Rubus idaeus</i>	N	48.95	13.71	0/1
<i>Rubus idaeus</i>	N	48.96	13.71	0/1
<i>Rubus idaeus</i>	N	48.98	13.77	0/1
<i>Rubus idaeus</i>	N	48.99	13.66	0/1
<i>Rubus idaeus</i>	N	49.70	15.72	1/1
<i>Rubus idaeus</i>	N	49.83	14.51	0/1
<i>Rubus idaeus</i>	N	49.87	14.67	1/1
<i>Rubus idaeus</i>	N	50.01	12.59	0/1
<i>Rubus idaeus</i>	N	50.05	12.73	0/1
<i>Rubus idaeus</i>	N	50.40	14.88	1/1
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<i>Rubus idaeus</i>	N	50.59	15.52	0/1
<i>Rubus idaeus</i>	N	50.81	14.92	0/1
<i>Rumex alpinus</i>	A	50.69	15.71	0/1
<i>Rumex alpinus</i>	A	50.69	15.73	0/1
<i>Rumex alpinus</i>	A	50.70	15.53	1/1
<i>Rumex alpinus</i>	A	50.70	15.54	0/1
<i>Rumex alpinus</i>	A	50.70	15.65	0/1
<i>Rumex alpinus</i>	A	50.70	15.66	0/1
<i>Rumex alpinus</i>	A	50.71	15.65	0/1
<i>Rumex alpinus</i>	A	50.72	15.60	0/1
<i>Rumex alpinus</i>	A	50.73	15.55	1/1
<i>Rumex alpinus</i>	A	50.76	15.28	0/1
<i>Rumex alpinus</i>	A	50.76	15.63	1/1
<i>Rumex alpinus</i>	A	50.77	15.44	1/1
<i>Solidago canadensis</i>	A	48.82	14.31	1/1
<i>Solidago canadensis</i>	A	49.83	14.51	0/1
<i>Solidago canadensis</i>	A	49.87	14.61	1/1
<i>Solidago canadensis</i>	A	50.00	14.17	0/1
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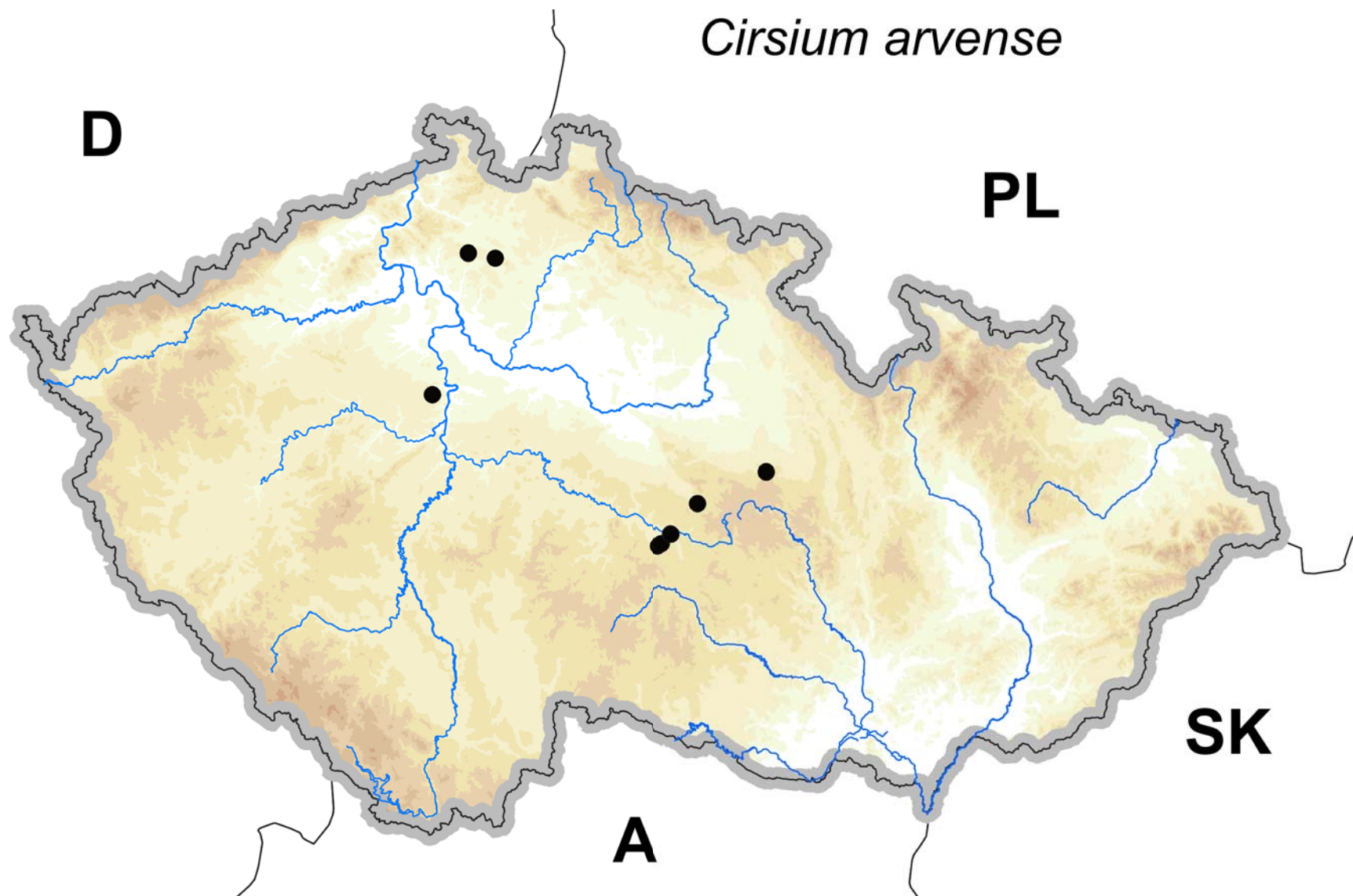
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<i>Solidago canadensis</i>	A	50.43	14.49	0/1
<i>Solidago canadensis</i>	A	50.51	16.36	1/1
<i>Solidago canadensis</i>	A	50.56	14.66	0/1
<i>Tanacetum vulgare</i>	N	48.73	16.88	1/1
<i>Tanacetum vulgare</i>	N	48.83	13.79	0/1
<i>Tanacetum vulgare</i>	N	48.83	13.80	0/1
<i>Tanacetum vulgare</i>	N	49.59	16.40	1/1
<i>Tanacetum vulgare</i>	N	49.60	16.40	1/1
<i>Tanacetum vulgare</i>	N	49.61	15.55	1/1
<i>Tanacetum vulgare</i>	N	49.81	13.42	1/1
<i>Tanacetum vulgare</i>	N	49.81	13.43	0/1
<i>Tanacetum vulgare</i>	N	49.84	15.65	1/1
<i>Tanacetum vulgare</i>	N	49.84	15.66	1/1
<i>Tanacetum vulgare</i>	N	49.85	13.37	1/1
<i>Tanacetum vulgare</i>	N	49.87	14.61	0/1
<i>Tanacetum vulgare</i>	N	49.93	13.51	1/1
<i>Tanacetum vulgare</i>	N	49.98	14.37	1/1
<i>Tanacetum vulgare</i>	N	50.02	14.50	0/1
<i>Tanacetum vulgare</i>	N	50.02	14.51	0/1
<i>Tanacetum vulgare</i>	N	50.03	14.58	1/1
<i>Tanacetum vulgare</i>	N	50.13	14.14	1/1
<i>Tanacetum vulgare</i>	N	50.37	12.81	1/1
<i>Telekia speciosa</i>	A	49.77	14.18	0/1
<i>Telekia speciosa</i>	A	49.78	14.64	0/1
<i>Telekia speciosa</i>	A	50.00	14.56	0/1
<i>Telekia speciosa</i>	A	50.18	16.43	1/1
<i>Telekia speciosa</i>	A	50.20	16.46	1/1
<i>Telekia speciosa</i>	A	50.21	16.45	1/1
<i>Telekia speciosa</i>	A	50.21	16.46	1/1
<i>Urtica dioica</i>	N	48.95	13.71	0/1
<i>Urtica dioica</i>	N	48.96	13.63	0/1
<i>Urtica dioica</i>	N	49.06	14.96	1/1
<i>Urtica dioica</i>	N	49.11	13.83	0/1
<i>Urtica dioica</i>	N	49.34	17.59	0/1
<i>Urtica dioica</i>	N	49.51	15.58	1/1
<i>Urtica dioica</i>	N	49.52	15.57	1/1
<i>Urtica dioica</i>	N	49.56	15.54	1/1
<i>Urtica dioica</i>	N	49.63	15.51	1/1
<i>Urtica dioica</i>	N	49.73	18.29	0/1
<i>Urtica dioica</i>	N	49.76	14.75	1/1
<i>Urtica dioica</i>	N	49.88	12.74	0/1
<i>Urtica dioica</i>	N	50.01	12.59	0/1
<i>Urtica dioica</i>	N	50.41	14.88	1/1

Aster novi-belgii agg.

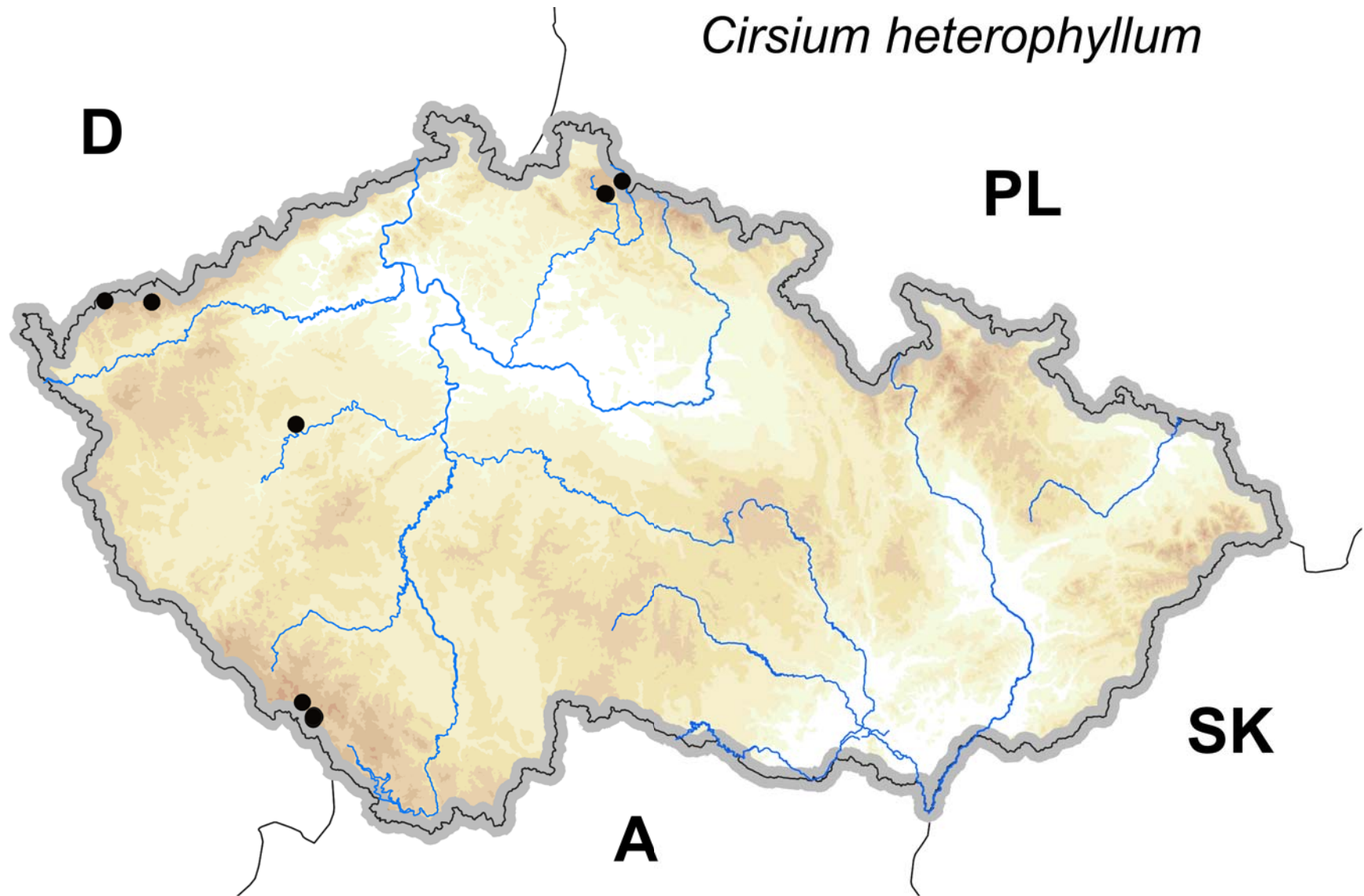


Calamagrostis epigejos

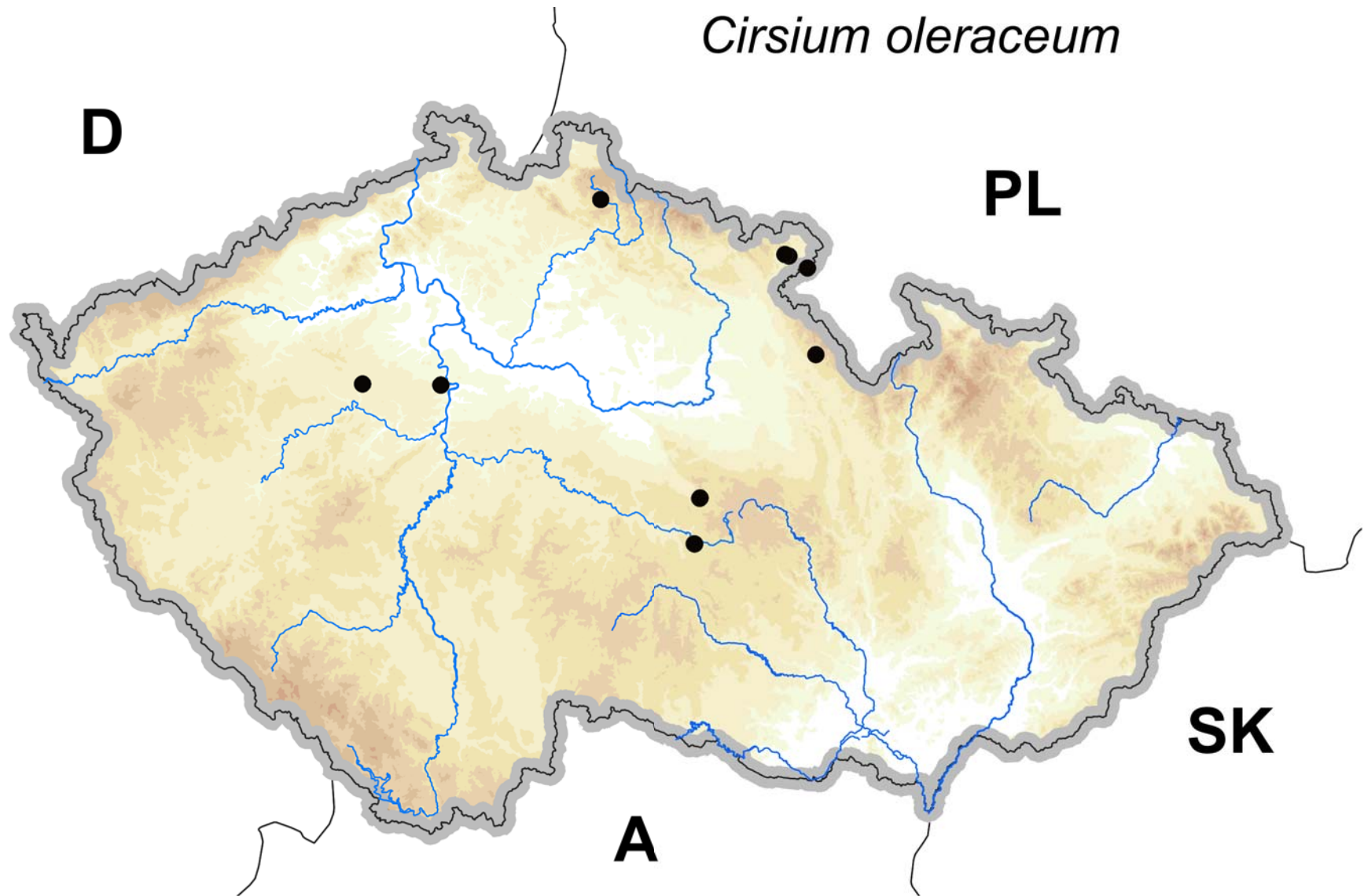




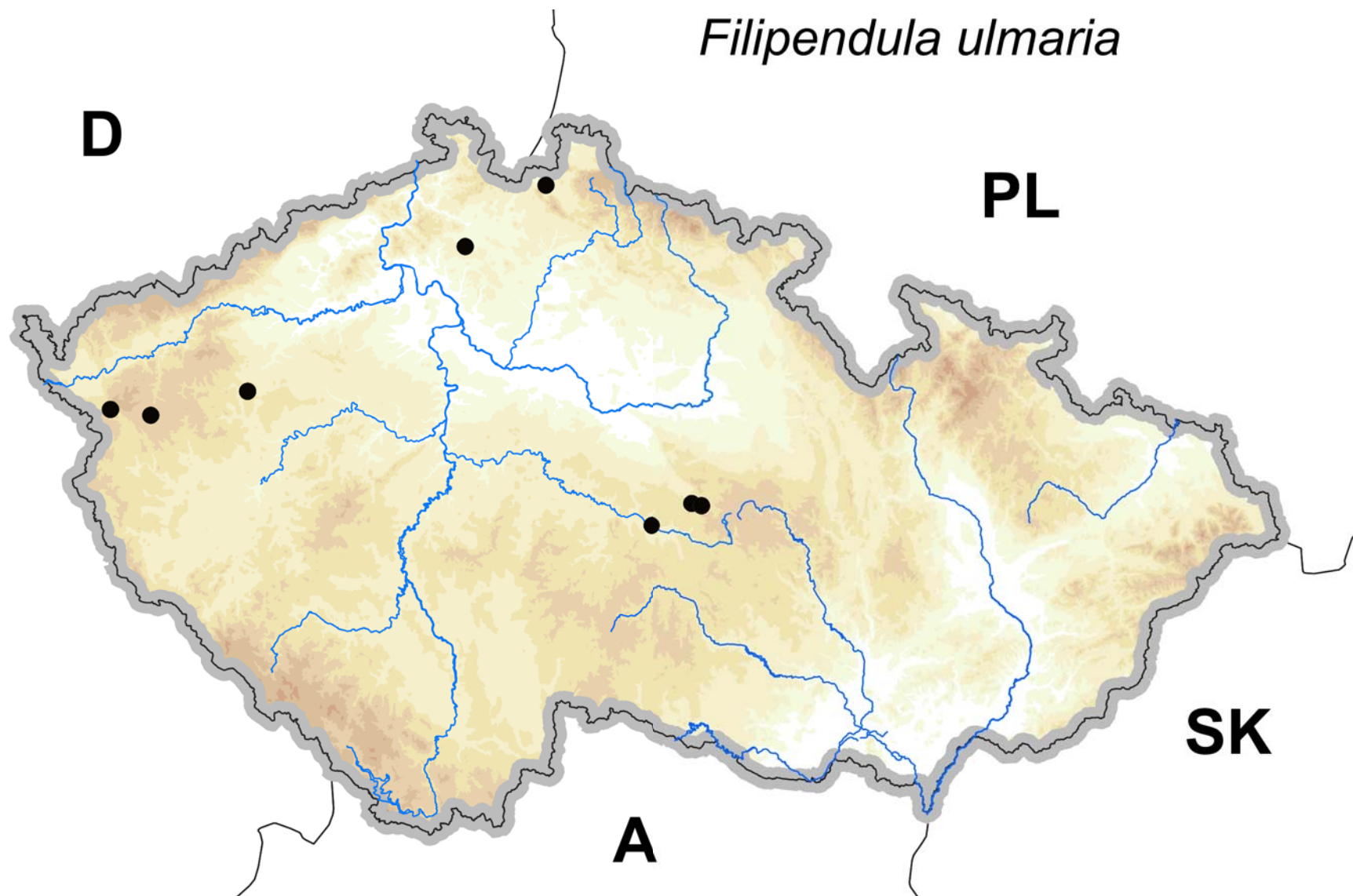
Cirsium heterophyllum



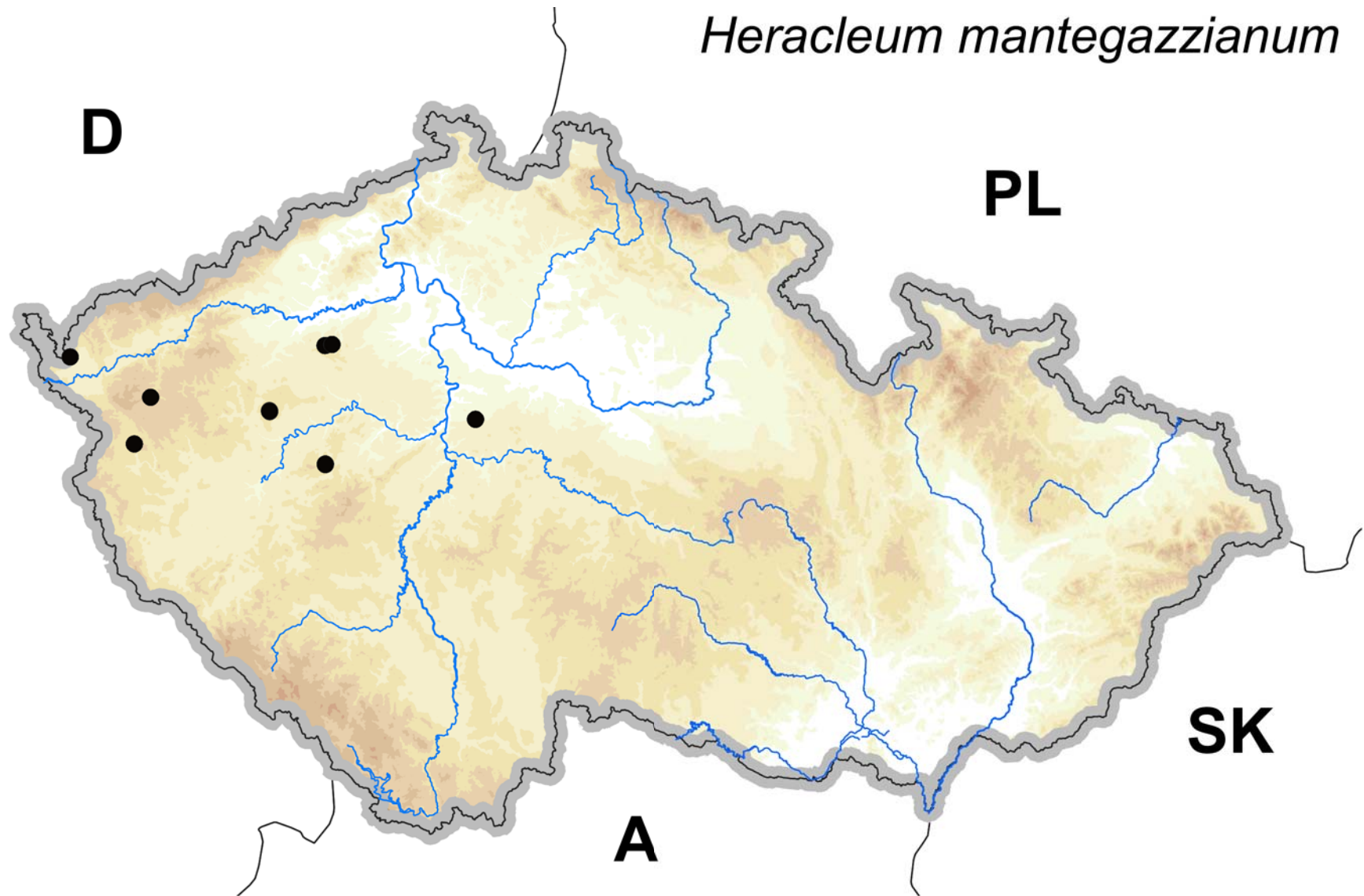
Cirsium oleraceum



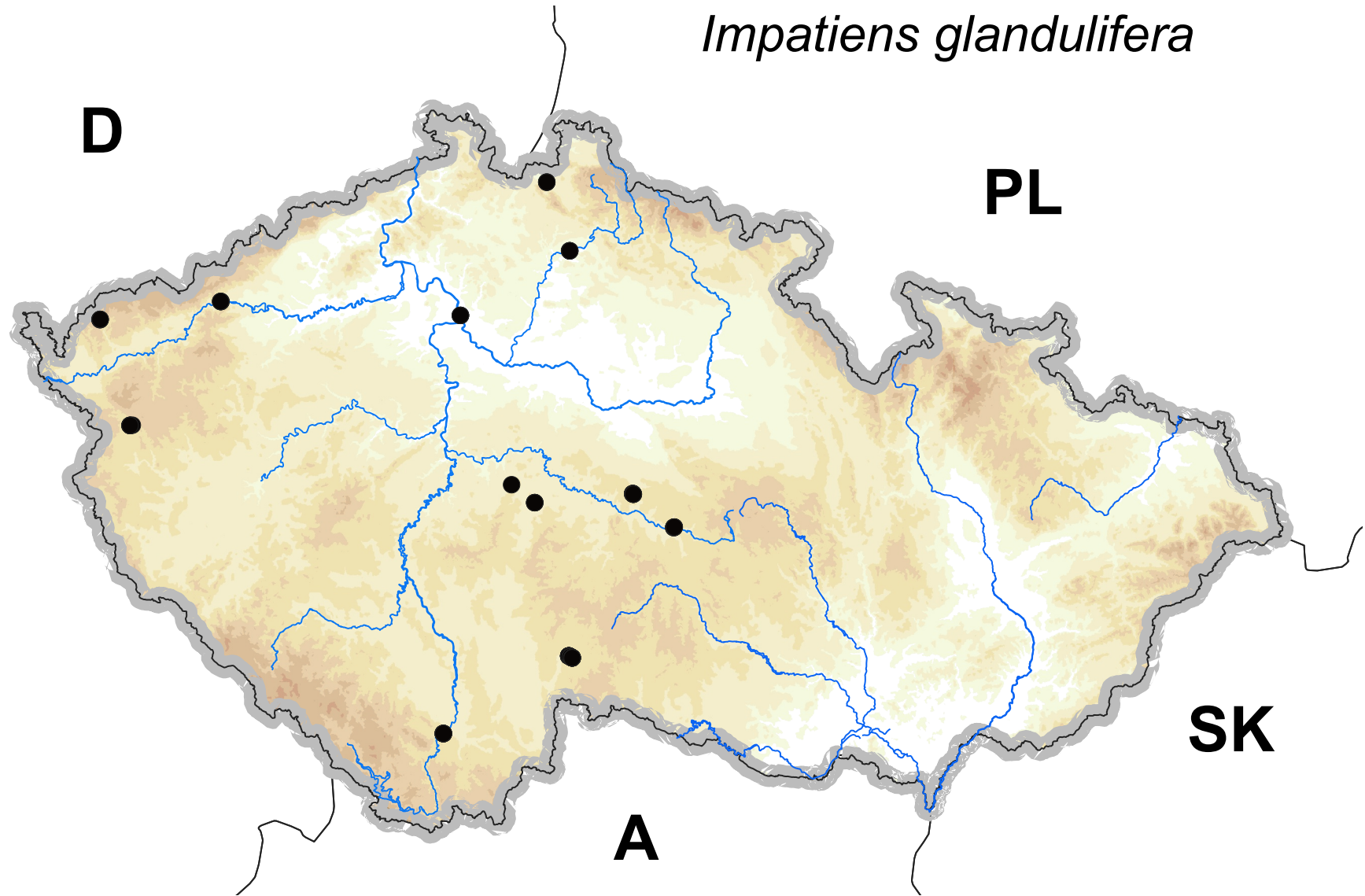
Filipendula ulmaria



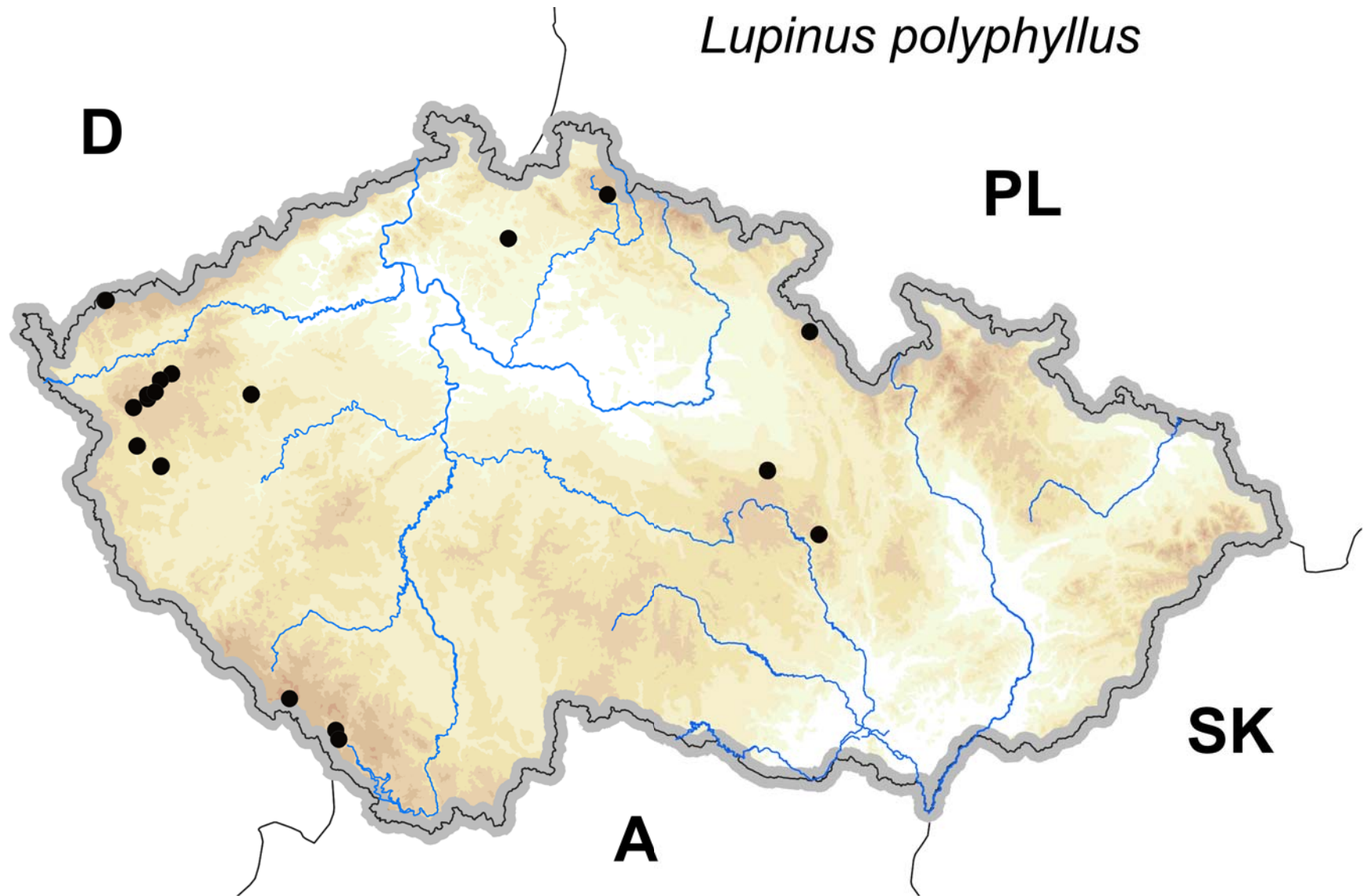
Heracleum mantegazzianum



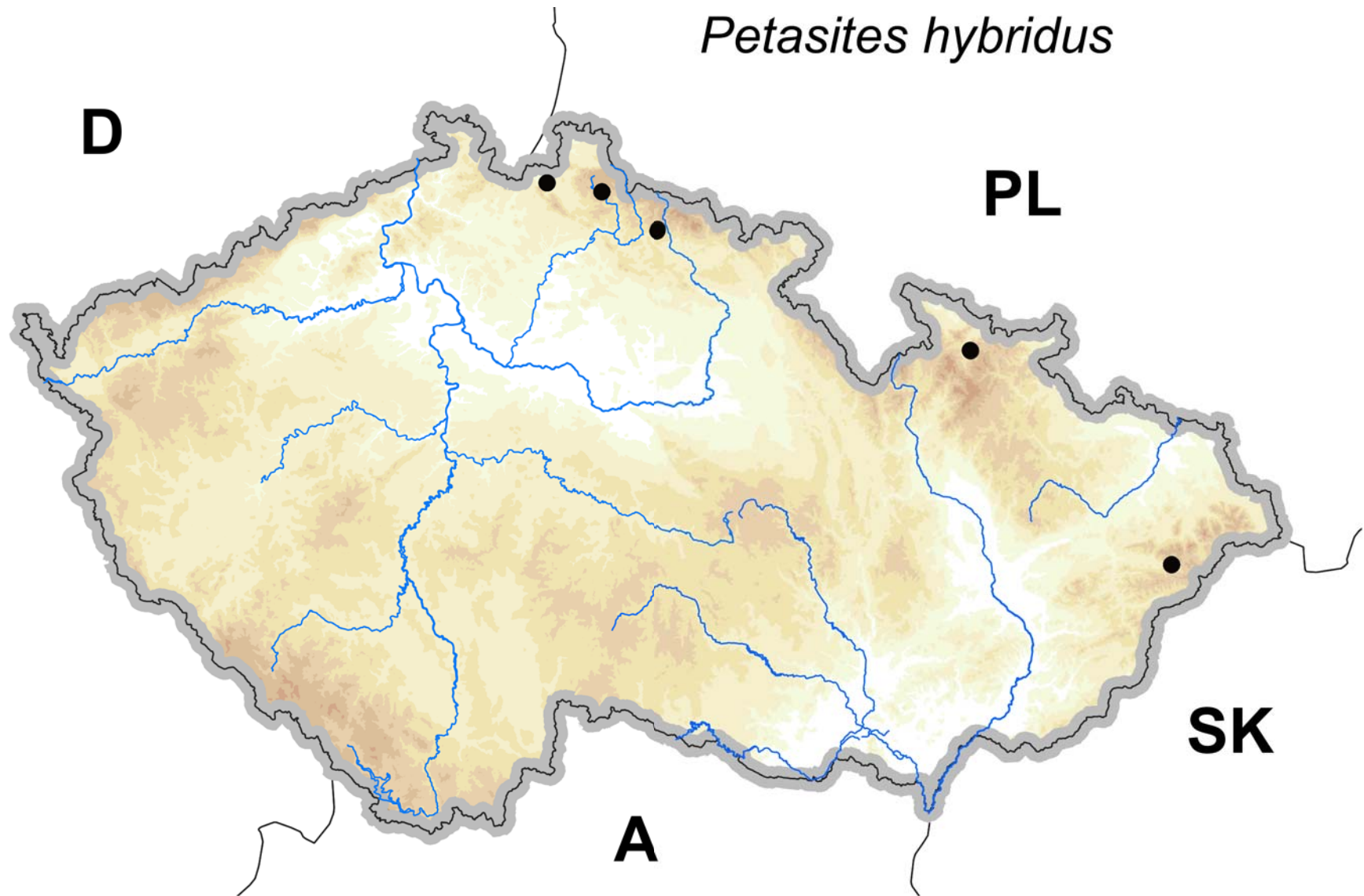
Impatiens glandulifera



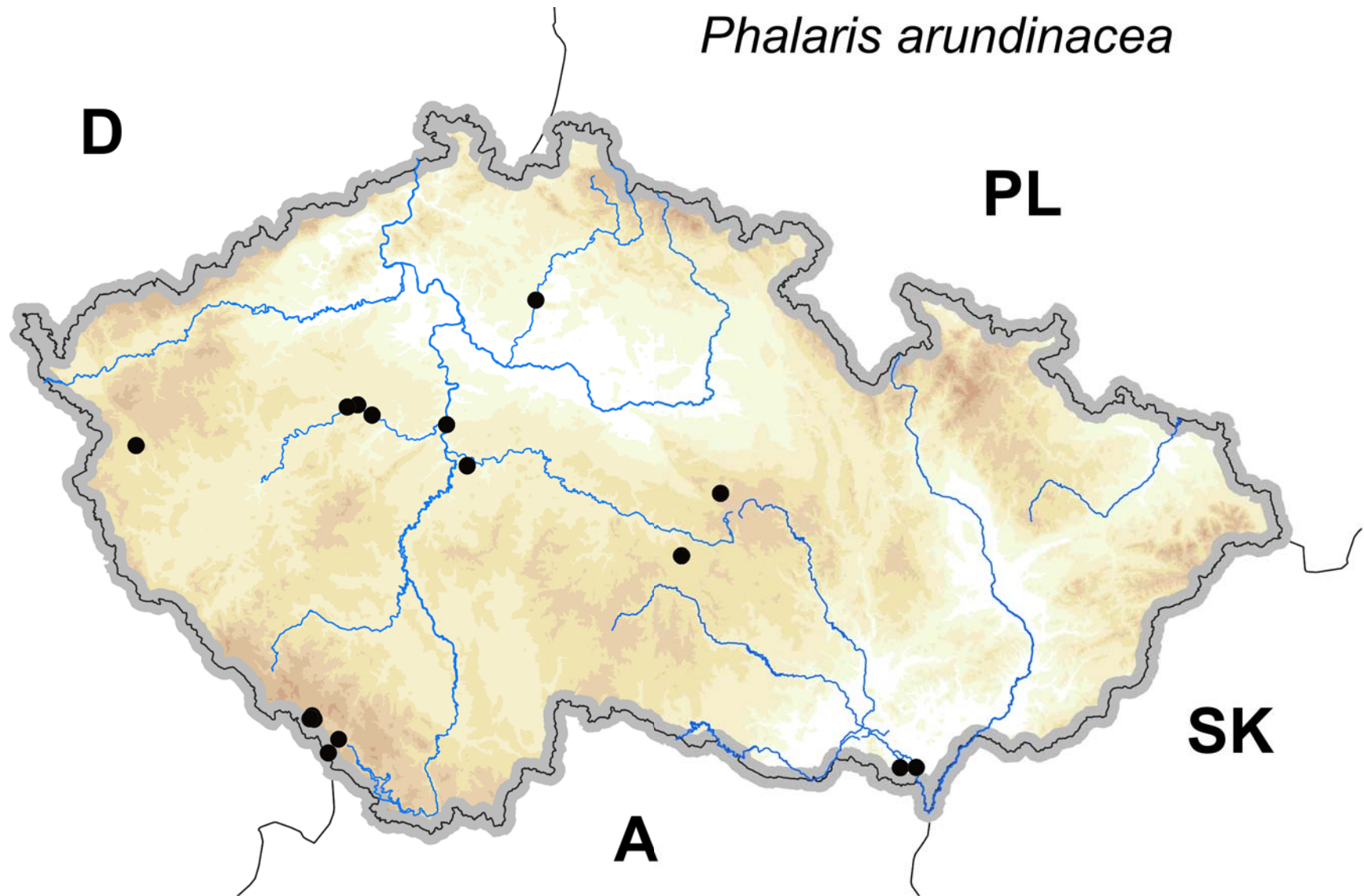
Lupinus polyphyllus



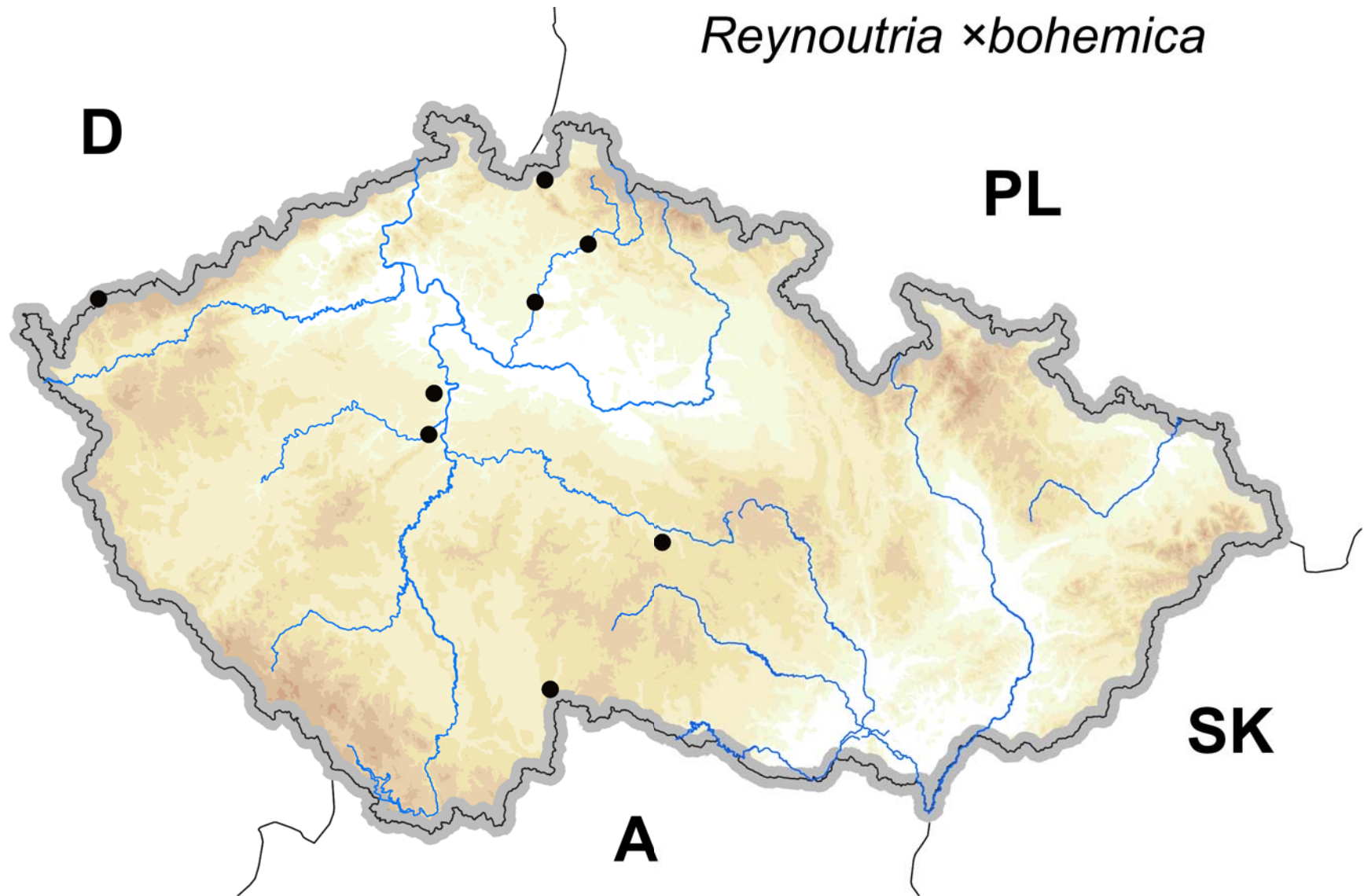
Petasites hybridus



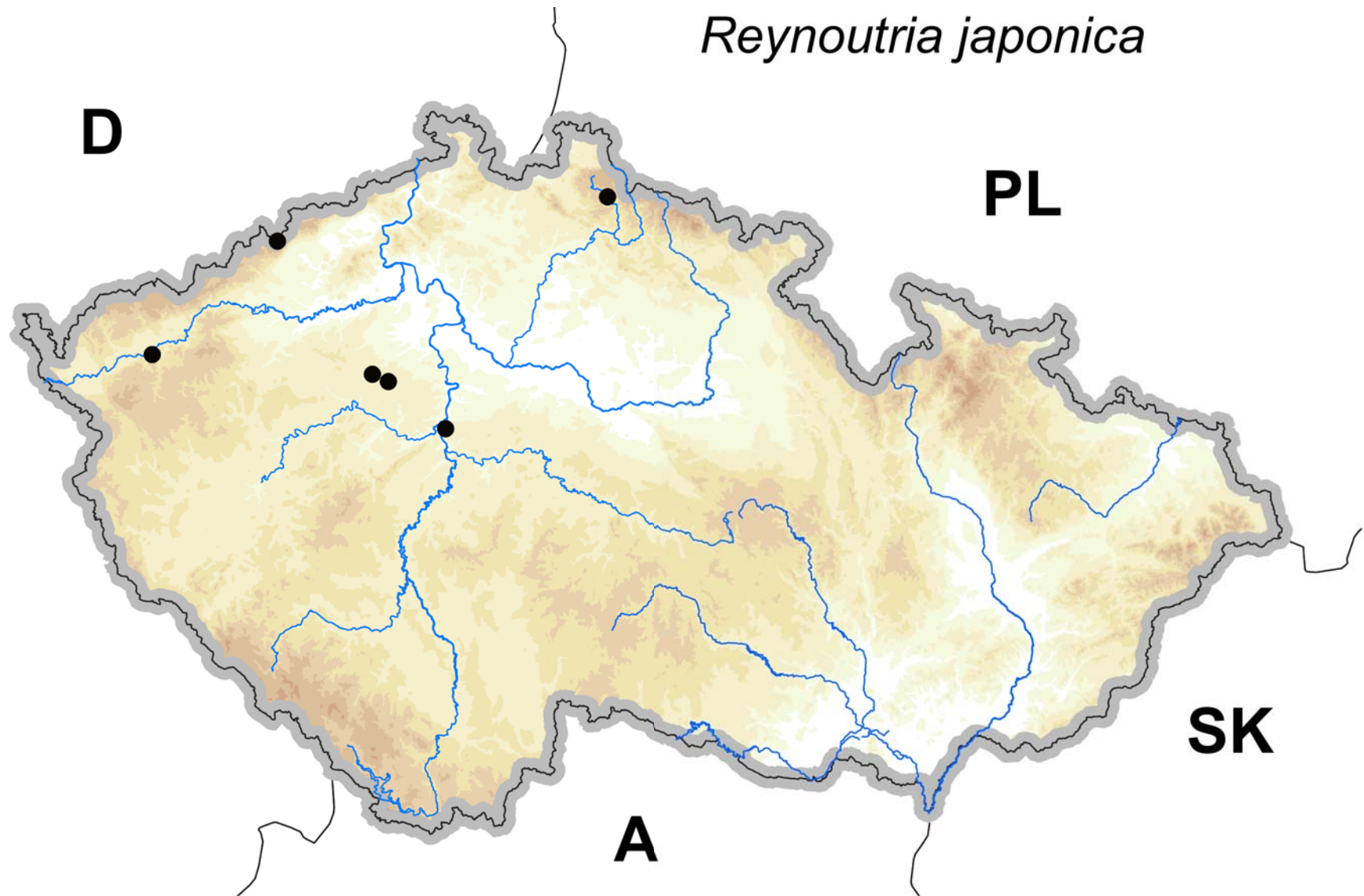
Phalaris arundinacea



Reynoutria ×bohemica



Reynoutria japonica

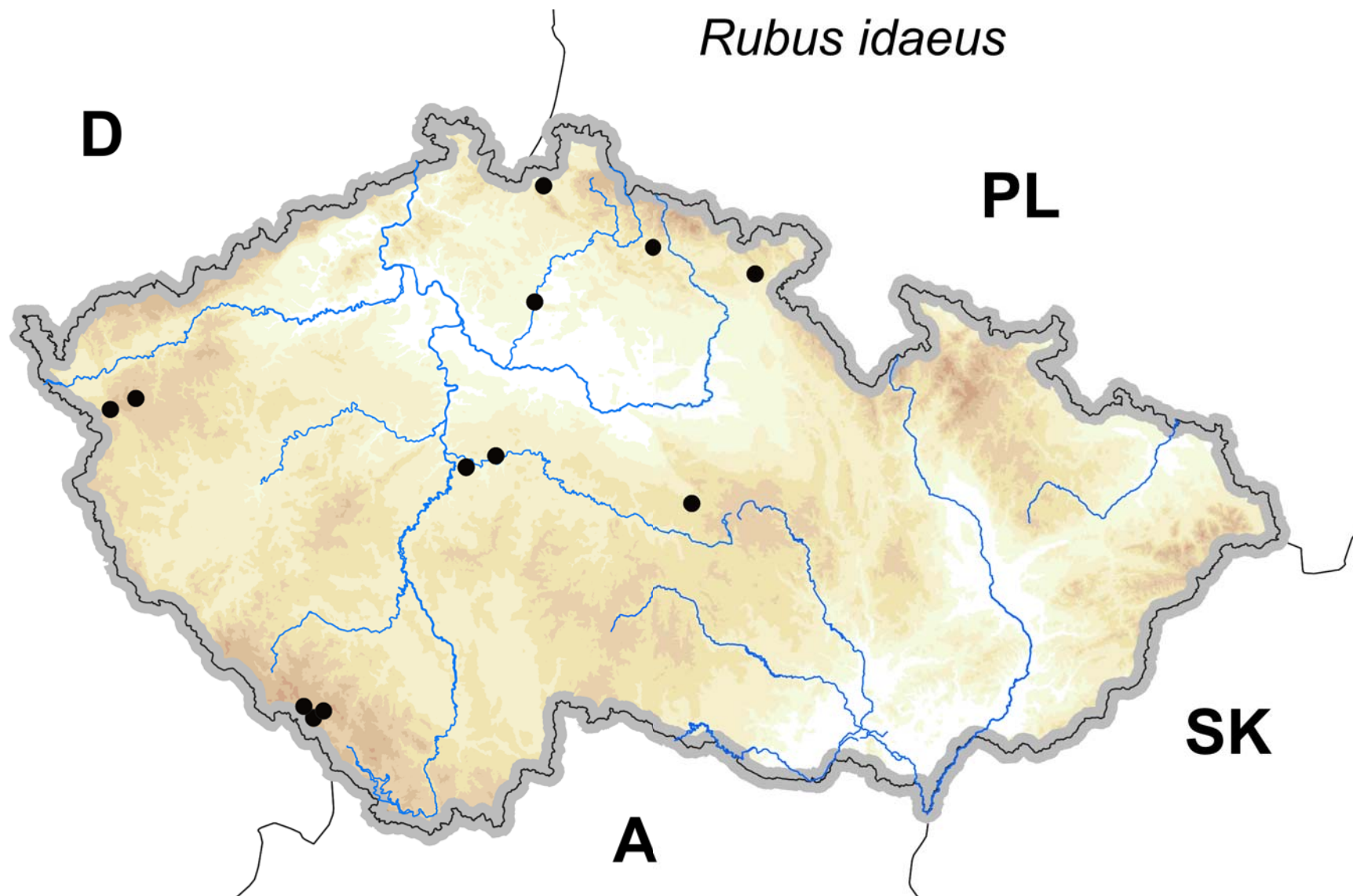


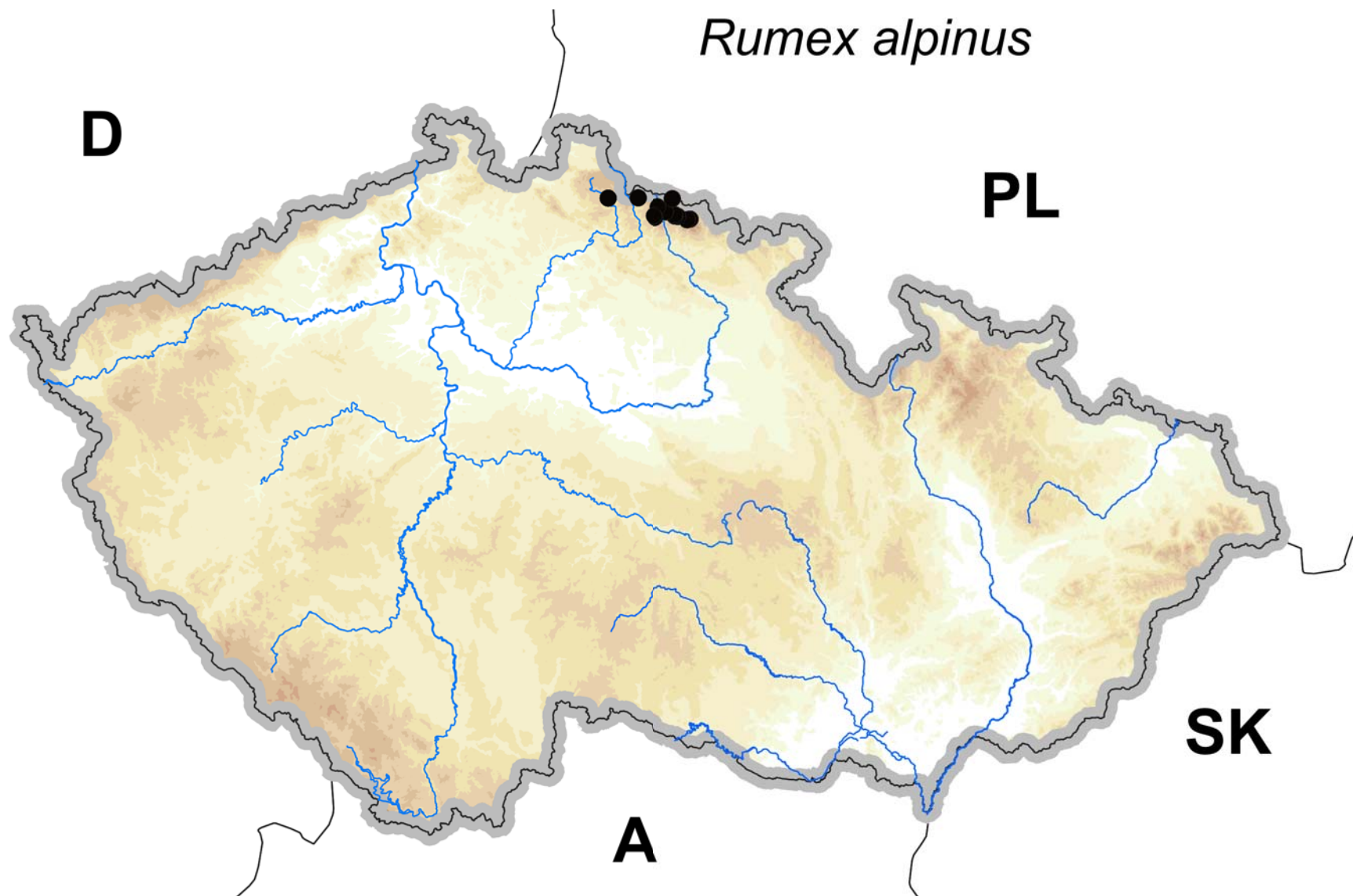
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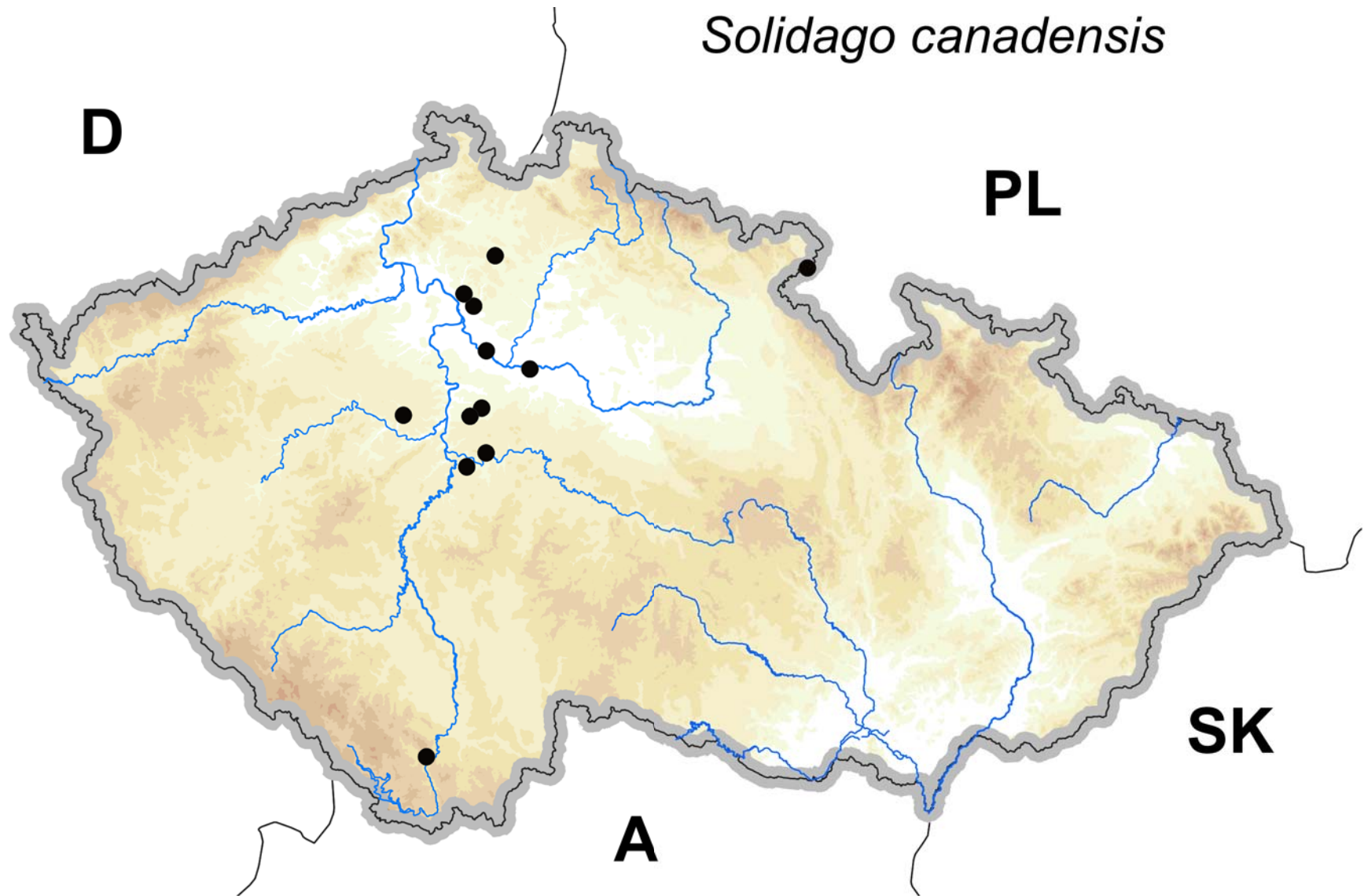
A

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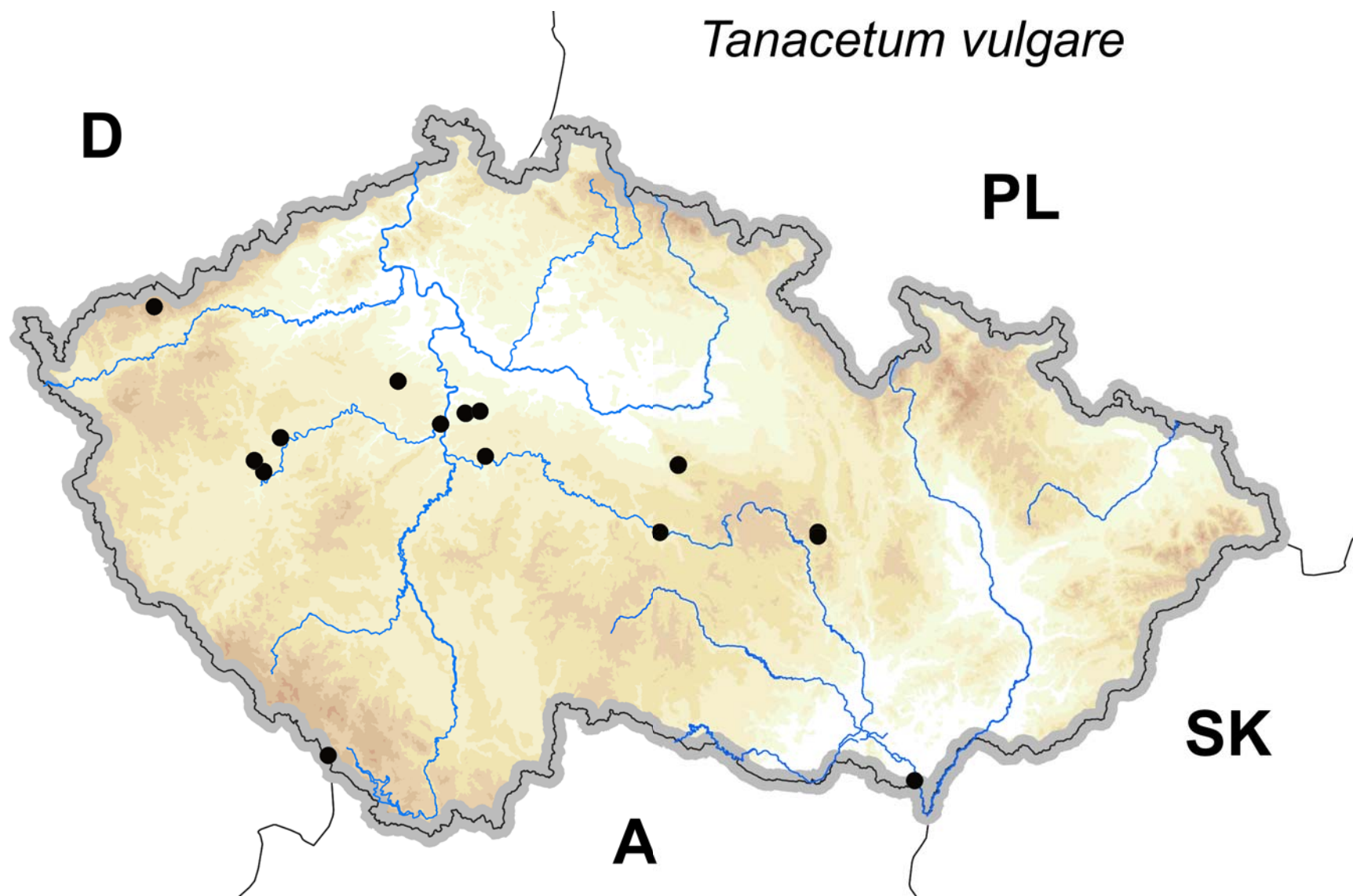




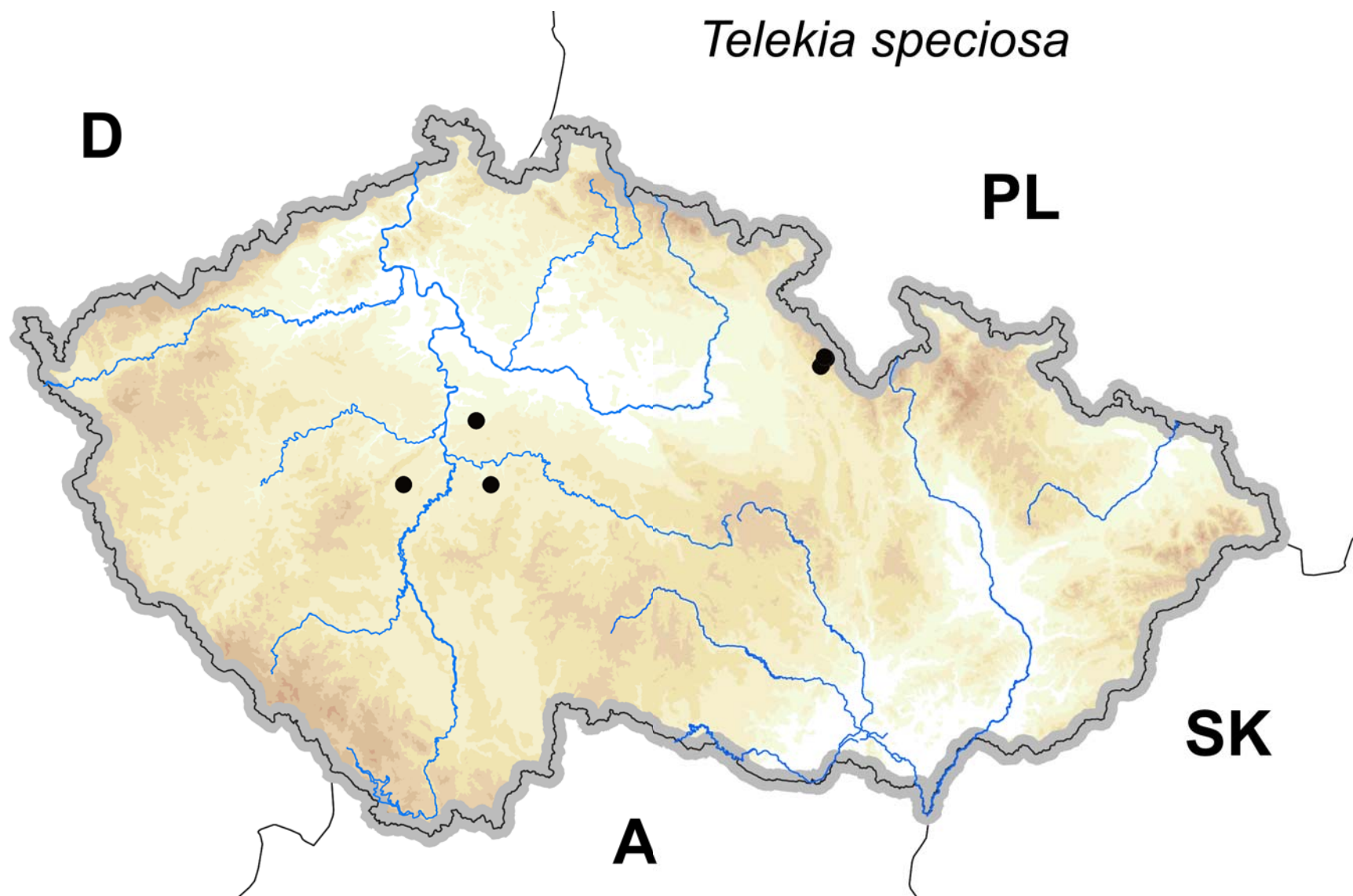
Solidago canadensis

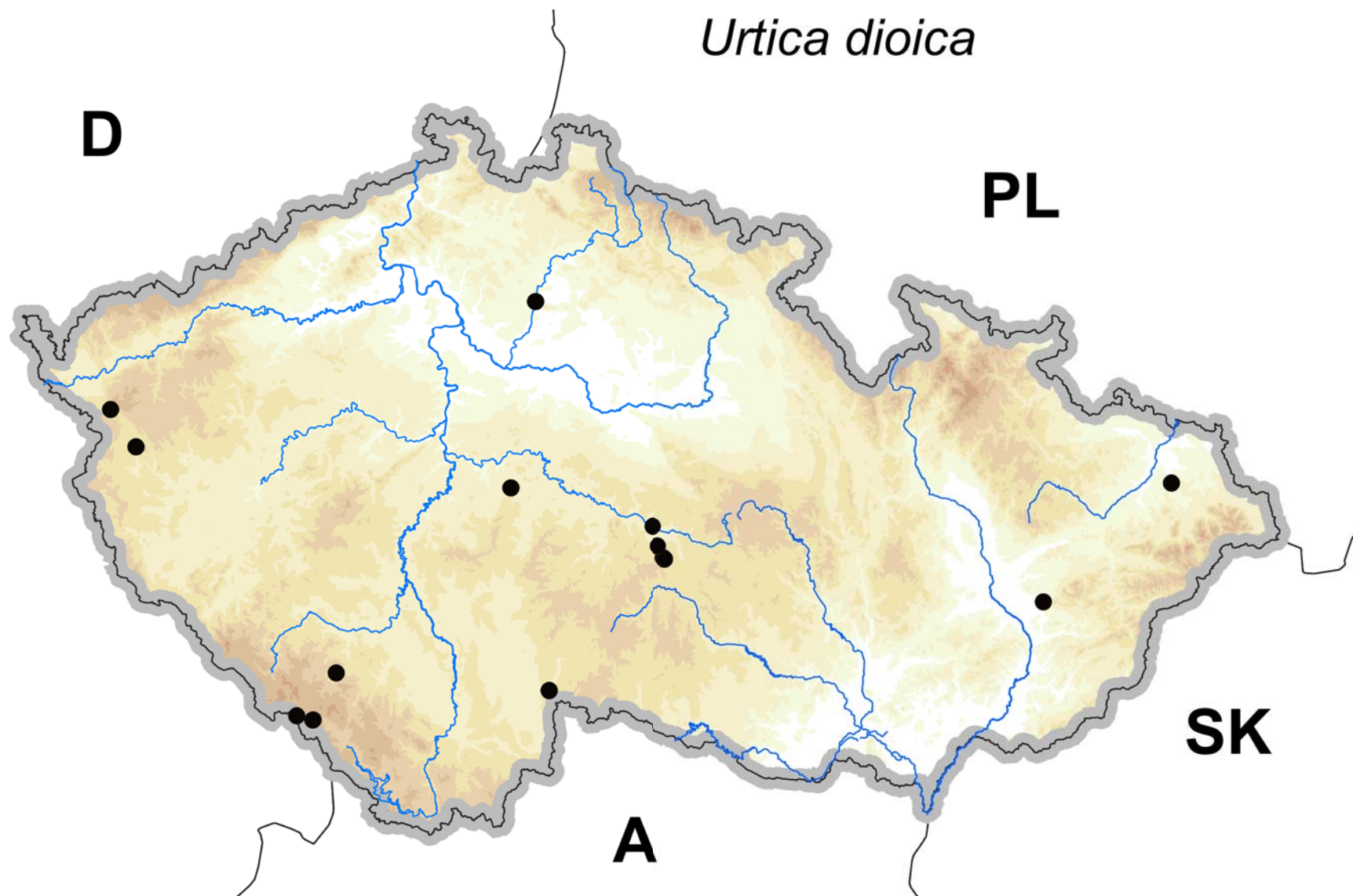


Tanacetum vulgare



Telekia speciosa





Electronic appendix 2 – The slopes of LMM regressions on the relations between the dominants' cover and species richness or Shannon diversity H' . Further, the table shows the details of LMM Analyses of Covariance, testing i) the interaction of dominants' cover with their origin; and ii) the triple interaction between the dominants' cover, their origin and size of the plots. Also, the table shows results of the paired tests on the differences in the LMM slope/intercept ratios (expressing the magnitude of impact) between the large plots (4 x 4 m) and small plots (1 x 1m).

1) Model with cover categories, origin and plot size

Species richness

term	estimate	S.E.	D.F.	t-value	p-value
<i>intercept</i>	4.225	0.116	523	36.547	<0.001
<i>cover of dominants</i>	-1.095	0.07	523	-15.665	<0.001
<i>origin of dominants</i>	-0.024	0.159	17	-0.148	0.884
<i>plot size</i>	-1.274	0.047	523	-27.147	<0.001
<i>cover:origin</i>	0.105	0.102	523	1.032	0.302
<i>cover:plot size</i>	0.416	0.068	523	6.097	<0.001
<i>origin:plot size</i>	0.157	0.065	523	2.408	0.016
<i>cover:origin:plot size</i>	-0.198	0.099	523	-1.992	0.047

Shannon diversity

term	estimate	S.E.	D.F.	t-value	p-value
<i>intercept</i>	1.868	0.087	523	21.402	<0.001
<i>cover of dominants</i>	-0.210	0.064	523	-3.269	0.001
<i>origin of dominants</i>	-0.088	0.120	17	-0.734	0.473
<i>plot size</i>	-0.491	0.040	523	-12.256	<0.001
<i>cover:origin</i>	0.108	0.094	523	1.15	0.251
<i>cover:plot size</i>	-0.112	0.058	523	-1.921	0.055
<i>origin:plot size</i>	0.173	0.056	523	3.115	0.002
<i>cover:origin:plot size</i>	-0.229	0.085	523	-2.693	0.007

2) Individual models for large and small plots

Species richness

Large plots	term	estimate	S.E.	D.F.	t-value	p-value
	<i>intercept</i>	17.653	0.991	754	17.816	<0.001
	<i>cover of dominants</i>	-6.028	0.469	754	-12.845	<0.001
	<i>origin of dominants</i>	-0.257	1.315	17	-0.195	0.848
	<i>cover:origin</i>	-0.798	0.671	754	-1.19	0.234

Small plots

term	estimate	S.E.	D.F.	t-value	p-value
<i>intercept</i>	2.944	0.122	421	24.214	<0.001
<i>cover of dominants</i>	-0.613	0.055	421	-11.181	<0.001
<i>origin of dominants</i>	0.210	0.162	17	1.292	0.214
<i>cover:origin</i>	-0.152	0.077	421	-1.974	0.049

Shannon diversity

Large plots	term	estimate	S.E.	D.F.	t-value	p-value
	intercept	1.926	0.093	754	20.7	<0.001
	cover of dominants	-0.146	0.051	754	-2.844	0.005
	origin of dominants	-0.060	0.124	17	-0.489	0.631
	cover:origin	-0.024	0.074	754	-0.321	0.748

Small plots

term	estimate	S.E.	D.F.	t-value	p-value
intercept	1.387	0.105	421	13.204	<0.001
cover of dominants	-0.301	0.058	421	-5.176	<0.001
origin of dominants	0.122	0.141	17	0.868	0.397
cover:origin	-0.13	0.082	421	-1.585	0.113

3) Results of testing the differences between the dominants within the pairs

Large plots		Species richness			Shannon diversity		
invasive dominant	native dominant	DF	t-value	p-value	DF	t-value	p-value
<i>Aster novi-belgii</i>	<i>Calamagrostis epigejos</i>	81	-2.234	0.028			NS
<i>Aster novi-belgii</i>	<i>Cirsium arvense</i>			NS			NS
<i>Aster novi-belgii</i>	<i>Tanacetum vulgare</i>	104	2.108	0.038			NS
<i>Heracleum mantegazzianum</i>	<i>Cirsium arvense</i>			NS			NS
<i>Heracleum mantegazzianum</i>	<i>Petasites hybridus</i>			NS			NS
<i>Heracleum mantegazzianum</i>	<i>Urtica dioica</i>			NS			NS
<i>Impatiens glandulifera</i>	<i>Filipendula ulmaria</i>			NS			NS
<i>Impatiens glandulifera</i>	<i>Phalaris arundinacea</i>	106	-2.895	0.005			NS
<i>Impatiens glandulifera</i>	<i>Rubus idaeus</i>			NS			NS
<i>Lupinus polyphyllus</i>	<i>Cirsium arvense</i>			NS			NS
<i>Lupinus polyphyllus</i>	<i>Cirsium oleraceum</i>	90	-2.201	0.03			NS
<i>Lupinus polyphyllus</i>	<i>Petasites hybridus</i>			NS			NS
<i>Reynoutria japonica</i>	<i>Petasites hybridus</i>			NS			NS
<i>Reynoutria japonica</i>	<i>Rubus idaeus</i>			NS			NS
<i>Reynoutria japonica</i>	<i>Urtica dioica</i>			NS			NS
<i>Reynoutria xbohemica</i>	<i>Calamagrostis epigejos</i>			NS			NS
<i>Reynoutria xbohemica</i>	<i>Cirsium arvense</i>			NS	61	2.724	0.008
<i>Reynoutria xbohemica</i>	<i>Petasites hybridus</i>			NS	53	3.241	0.002
<i>Rumex alpinus</i>	<i>Cirsium heterophyllum</i>	100	2.643	0.01	100	4.642	<0.001
<i>Rumex alpinus</i>	<i>Cirsium oleraceum</i>			NS	93	2.056	0.043
<i>Rumex alpinus</i>	<i>Filipendula ulmaria</i>			NS			NS
<i>Solidago canadensis</i>	<i>Calamagrostis epigejos</i>			NS			NS
<i>Solidago canadensis</i>	<i>Cirsium arvense</i>			NS			NS
<i>Solidago canadensis</i>	<i>Tanacetum vulgare</i>			NS			NS
<i>Telekia speciosa</i>	<i>Cirsium oleraceum</i>			NS			NS
<i>Telekia speciosa</i>	<i>Phalaris arundinacea</i>			NS			NS
<i>Telekia speciosa</i>	<i>Rubus idaeus</i>			NS			NS

Small plots		Species richness			Shannon diversity		
invasive dominant	native dominant	DF	t-value	p-value	DF	t-value	p-value
<i>Aster novi-belgii</i>	<i>Calamagrostis epigejos</i>			NS			NS
<i>Aster novi-belgii</i>	<i>Cirsium arvense</i>			NS			NS
<i>Aster novi-belgii</i>	<i>Tanacetum vulgare</i>			NS			NS
<i>Heracleum mantegazzianum</i>	<i>Cirsium arvense</i>			NS			NS
<i>Heracleum mantegazzianum</i>	<i>Petasites hybridus</i>			NS			NS
<i>Heracleum mantegazzianum</i>	<i>Urtica dioica</i>			NS			NS
<i>Impatiens glandulifera</i>	<i>Filipendula ulmaria</i>			NS			NS
<i>Impatiens glandulifera</i>	<i>Phalaris arundinacea</i>			NS			NS
<i>Impatiens glandulifera</i>	<i>Rubus idaeus</i>			NS			NS
<i>Lupinus polyphyllus</i>	<i>Cirsium arvense</i>			NS			NS
<i>Lupinus polyphyllus</i>	<i>Cirsium oleraceum</i>			NS			NS
<i>Lupinus polyphyllus</i>	<i>Petasites hybridus</i>	20	-2.593	0.017			NS
<i>Reynoutria japonica</i>	<i>Petasites hybridus</i>			NS			NS
<i>Reynoutria japonica</i>	<i>Rubus idaeus</i>			NS			NS
<i>Reynoutria japonica</i>	<i>Urtica dioica</i>			NS			NS
<i>Reynoutria xbohemica</i>	<i>Calamagrostis epigejos</i>			NS			NS
<i>Reynoutria xbohemica</i>	<i>Cirsium arvense</i>			NS			NS
<i>Reynoutria xbohemica</i>	<i>Petasites hybridus</i>			NS			NS
<i>Rumex alpinus</i>	<i>Cirsium heterophyllum</i>			NS			NS
<i>Rumex alpinus</i>	<i>Cirsium oleraceum</i>			NS			NS
<i>Rumex alpinus</i>	<i>Filipendula ulmaria</i>			NS			NS
<i>Solidago canadensis</i>	<i>Calamagrostis epigejos</i>			NS			NS
<i>Solidago canadensis</i>	<i>Cirsium arvense</i>			NS			NS
<i>Solidago canadensis</i>	<i>Tanacetum vulgare</i>			NS			NS
<i>Telekia speciosa</i>	<i>Cirsium oleraceum</i>			NS			NS
<i>Telekia speciosa</i>	<i>Phalaris arundinacea</i>			NS			NS
<i>Telekia speciosa</i>	<i>Rubus idaeus</i>			NS			NS

4) Regression estimates of the LMM models on the relations between the dominant species' cover and species richness or Shannon diversity.

Dominant	Large plots				Small plots			
	Species richness	p-value	Shannon diversity	p-value	Species richness	p-value	Shannon diversity	p-value
<i>Aster novi-belgii</i>	$y=17.977-6.798x$	<0.001	$y=1.967-0.118x$	0.488	$y=7.584-2.81x$	0.005	$y=1.225-0.335x$	0.145
<i>Calamagrostis epigejos</i>	$y=18.033-9.807x$	<0.001	$y=1.785-0.306x$	0.057	$y=9.059-4.573x$	<0.001	$y=1.39-0.679x$	<0.001
<i>Cirsium arvense</i>	$y=14.522-5.072x$	0.035	$y=1.511+0.096x$	0.717	$y=9.358-3.602x$	0.009	$y=1.46-0.283x$	0.171
<i>Cirsium heterophyllum</i>	$y=21.361-2.257x$	0.25	$y=0.665+0.327x$	<0.001	$y=16.979-5.72x$	0.102	$y=1.873+0.118x$	0.655
<i>Cirsium oleraceum</i>	$y=19.541-6.371x$	<0.001	$y=1.836+0.159x$	0.317	$y=10.566-3.71x$	<0.001	$y=1.574-0.328x$	0.006
<i>Filipendula ulmaria</i>	$y=15.046-7.248x$	<0.001	$y=1.694-0.201x$	0.216	$y=9.142-4.27x$	<0.001	$y=1.613-0.648x$	0.002
<i>Heracleum mantegazzianum</i>	$y=16.835-5.737x$	<0.001	$y=1.76-0.103x$	0.416	$y=9.108-2.942x$	<0.001	$y=1.425-0.303x$	0.021
<i>Impatiens glandulifera</i> (polynomial model)	$y=12.58+8.57x-12.913x^2$	0.027						
<i>Impatiens glandulifera</i>	$y=13.693-3.320x$	0.035	$y=1.289-0.05x$	0.343	$y=7.858-3.11x$	<0.001	$y=1.249-0.334x$	0.111
<i>Lupinus polyphyllus</i>	$y=20.818-1.684x$	0.194	$y=2.175+0.29x$	0.03	$y=10.027-1.333x$	0.284	$y=1.693-0.111x$	0.561
<i>Petasites hybridus</i>	$y=17.286-5.65x$	0.003	$y=1.884-0.018x$	0.922	$y=11.133-4.983x$	0.002	$y=1.362-0.251x$	0.15
<i>Phalaris arundinacea</i>	$y=15.487-8.271x$	<0.001	$y=1.885-0.667x$	<0.001	$y=8.654-4.461x$	<0.001	$y=1.42-0.679x$	<0.001
<i>Reynoutria japonica</i>	$y=18.07-7.094x$	<0.001	$y=1.684-0.202x$	0.166				
<i>Reynoutria xbohemica</i>	$y=15.386-8.57x$	<0.001	$y=1.952-0.614x$	0.001	$y=6.18-3.481x$	<0.001	$y=1.004-0.719x$	<0.001
<i>Rubus idaeus</i>	$y=17.455-7.398x$	<0.001	$y=1.947-0.327x$	0.009	$y=10.001-3.501x$	0.023	$y=1.513-0.484x$	0.089
<i>Rumex alpinus</i> (polynomial model)	$y=19.24+8.707x-16.06x^2$	<0.001						
<i>Rumex alpinus</i>	$y=20.74-8.434x$	<0.001	$y=2.217-0.261x$	0.024	$y=9.128-2.791x$	<0.001	$y=1.141-0.087x$	0.608
<i>Solidago canadensis</i>	$y=18.633-7.055x$	<0.001	$y=2.021-0.135x$	0.48	$y=9.409-3.692x$	0.001	$y=1.459-0.291x$	0.17
<i>Tanacetum vulgare</i>	$y=18.197-3.009x$	0.025	$y=1.882+0.229x$	0.081	$y=9.05-2.017x$	0.007	$y=1.417+0.006x$	0.961
<i>Telekia speciosa</i>	$y=18.768-8.048x$	<0.001	$y=1.973-0.111x$	0.442	$y=11.466-3.995x$	0.007	$y=1.678-0.407x$	0.012
<i>Urtica dioica</i>	$y=16.271-8.234x$	<0.001	$y=1.88-0.402x$	0.012	$y=8.36-4.351x$	<0.001	$y=1.498-0.879x$	<0.001