

Table S1. Correlation coefficients between the first two PCs and the variables included in PCAcon, PCAiws, and PCAsws

	PCacon	PCAiws	PCAsws									
	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2	PC1	PC2
	R	p			R	p						
<i>Quantitative variables</i>												
Caro	0.69	0.000	0.59	0.001	0.29	0.114	0.68	0.000	0.16	0.399	-0.36	0.048
Chl a	0.61	0.000	0.66	0.000	0.28	0.132	0.90	0.000	0.71	0.000	-0.56	0.001
Chl b	0.61	0.000	0.60	0.000	0.32	0.088	0.78	0.000	0.62	0.000	-0.64	0.000
DWr	-0.23	0.226	0.63	0.000	0.80	0.000	-0.28	0.135	0.40	0.029	0.51	0.004
DWs	-0.69	0.000	0.58	0.001	0.80	0.000	-0.33	0.076	0.05	0.778	0.42	0.019
FWr	-0.01	0.975	0.42	0.022	0.76	0.000	-0.33	0.074	0.73	0.000	0.27	0.153
FWs	-0.54	0.002	0.38	0.041	0.83	0.000	0.32	0.083	0.81	0.000	0.42	0.021
Ln	0.08	0.691	0.05	0.801	0.60	0.000	-0.06	0.765	0.32	0.083	0.07	0.730
MDA	0.25	0.190	0.03	0.893	0.08	0.677	0.64	0.000	0.40	0.027	-0.37	0.044
PRO	0.06	0.754	0.48	0.008	0.45	0.013	-0.42	0.021	0.49	0.006	-0.26	0.160
RL	-0.36	0.054	-0.02	0.924	0.10	0.588	-0.20	0.294	0.59	0.001	0.52	0.003
SL	-0.45	0.013	0.36	0.051	0.54	0.002	0.33	0.071	-0.08	0.690	0.52	0.003
TDW	-0.61	0.000	0.73	0.000	0.92	0.000	-0.30	0.110	0.47	0.010	0.66	0.000
TF	0.30	0.113	0.48	0.007	-0.41	0.025	-0.09	0.644	0.54	0.002	-0.04	0.825
TPC	0.65	0.000	0.10	0.614	-0.24	0.206	0.33	0.071	0.37	0.042	-0.56	0.001
WCr	0.52	0.003	-0.17	0.377	-0.02	0.936	0.14	0.455	0.45	0.013	0.00	0.990
WCs	0.19	0.307	0.10	0.609	0.24	0.197	0.42	0.022	0.82	0.000	0.01	0.963
<i>Categorical variables</i>												
<i>Ageratum houstonianum</i>	1.28	0.108	0.03	0.967	1.14	0.215	-1.84	0.014	0.73	0.426	0.06	0.938
<i>Calendula officinalis</i>	-2.19	0.004	0.24	0.757	-0.33	0.720	-0.38	0.631	0.84	0.357	-0.91	0.212
<i>Callistephus chinensis</i>	-0.25	0.759	-1.28	0.094	-0.95	0.306	1.12	0.148	-1.15	0.203	-0.44	0.556
<i>Glebionis carinata</i>	0.02	0.984	-0.92	0.232	0.52	0.578	0.34	0.667	2.53	0.003	1.58	0.026
<i>Leucanthemum vulgare</i>	0.36	0.657	-0.37	0.638	0.85	0.363	0.70	0.369	-0.07	0.942	0.61	0.411
<i>Xerochrysum bracteatum</i>	0.79	0.328	2.29	0.001	-1.22	0.184	0.06	0.942	-2.88	0.000	-0.90	0.222

Figure S1. Eigen analysis of PCAcon, PCAiws, and PCAsws

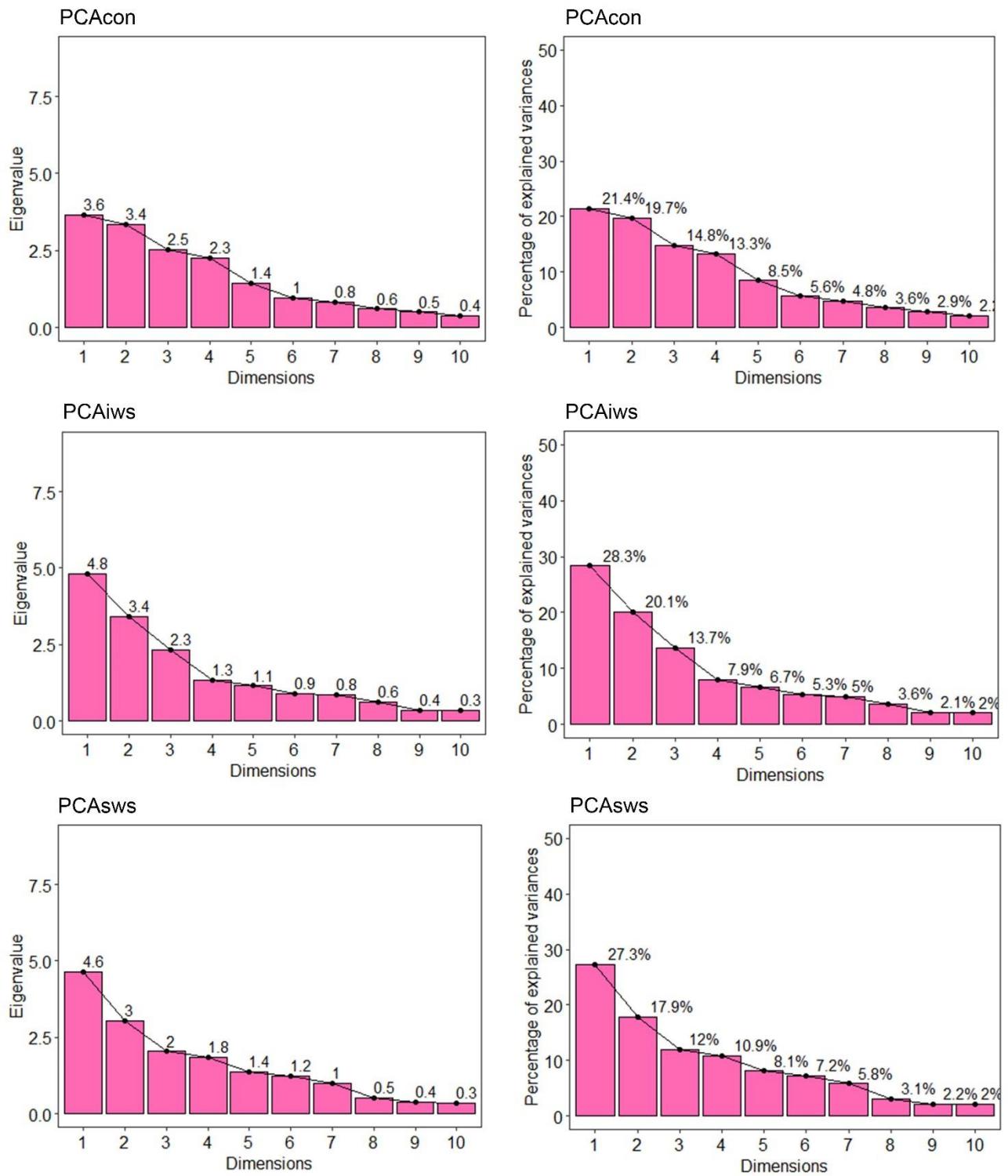


Table S2. Coefficients of linear discriminants for CVAcon, CVAiws, and CVAsws

	CVAcon		CVAiws		CVAsws	
	LD1	LD2	LD1	LD2	LD1	LD2
LN	0.037	-0.022	-0.005	-0.068	0.034	-0.074
SL	-0.069	0.400	-0.061	0.031	-0.031	-0.070
RL	0.043	-0.017	-0.010	-0.046	0.028	0.019
FWr	0.384	-0.041	0.143	0.038	-0.269	0.132
FWs	0.262	-0.158	-0.024	0.022	0.168	0.029
DWr	-3.295	-0.511	-0.116	0.026	-0.136	-0.044
DWs	0.580	0.463	0.014	0.032	-0.181	0.017
WCr	0.124	-0.008	0.028	-0.052	0.316	0.071
WCs	-0.011	0.006	-0.564	-0.078	-0.002	0.024
TDW	-0.586	0.060	0.037	-0.018	-0.057	-0.066
Chl a	-1.231	-0.207	-0.025	0.014	0.005	0.009
Chl b	1.800	-0.808	0.023	0.020	0.000	-0.012
Caro	3.336	5.611	0.002	-0.010	0.002	0.000
PRO	0.192	-0.002	0.001	-0.010	-0.003	0.006
MDA	-0.001	-0.007	0.022	-0.009	0.000	0.017
TF	0.074	0.022	-0.002	0.019	0.009	0.027
TPC	0.029	0.031	-0.002	0.020	-0.004	-0.038