

1 **Appendix.** Morphological and palynological scores used in multivariate data analysis).

Taxon	X ₁	X ₂	X ₃	X ₄	X ₅	X ₆	X ₇	X ₈	X ₉	X ₁₀	X ₁₁	X ₁₂
<i>P. gracilis</i>	6.8	0	0.93	1.97	0	0	1.99	7.60	0	0	0	0
(S. Güven 177 & S. Makbul)	±1.5		±0.08	±0.15			±0.28	±0.71				
<i>P. graeca</i>	8.7	1	1.68	2.7	1	0	3.54	10.18	1	0	0	0
(S. Güven 100 & S. Makbul)	±1.0		±0.18	±0.2			±0.26	±0.72				
<i>P. graeca</i>	9.3	1	1.44	2.96	1	0	3.38	12.16	1	0	0	0
(S. Güven 178 & S. Makbul)	±0.8		±0.17	±0.48			±0.39	±0.63				
<i>A. sericifera</i>	17.6	1	7.48	15.02	1	1	7.74	23.24	0	0	0	2
(S. Güven 185 & S. Makbul)	±3.4		±1.03	±1.68			±1.27	±2.11				
<i>C. erecta</i>	7.5	1	0.56	1.36	1	0	2.27	7.06	0	1	0	1
(S. Güven 181 & S. Makbul)	±1.8		±0.05	±0.13			±0.18	±0.57				
<i>C. erecta</i>	9.1	1	0.95	1.84	1	0	1.97	8.04	0	1	0	1
(S. Güven 40 & S. Makbul)	±0.9		±0.08	±0.31			±0.24	±0.88				
<i>C. erecta</i>	13.1	1	0.61	1.50	1	0	1.85	7.44	0	1	0	1
(S. Güven 54 & S. Makbul)	±2.6		±0.11	±0.19			±0.40	±1.11				
<i>C. erecta</i>	9.3	1	0.96	1.84	1	0	2.11	8.46	0	1	0	1
(S. Güven 92 & S. Makbul)	±0.9		±0.13	±0.26			±0.41	±1.25				
<i>C. acutum</i> subsp. <i>acutum</i>	8.4	1	0.67	1.63	1	0	1.70	4.44	0	1	1	1
(S. Güven 183 & S. Makbul)	±1.2		±0.11	±0.17			±0.19	±0.32				
<i>C. acutum</i> subsp. <i>acutum</i>	12.3	1	1.01	2.24	1	0	2.26	6.91	0	1	1	1
(S. Güven 188 & S. Makbul)	±2.4		±0.18	±0.26			±0.12	±0.29				
<i>C. acutum</i> subsp. <i>acutum</i>	8.3	1	0.85	2.19	1	0	1.31	3.60	0	1	1	1
(S. Güven 190 & S. Makbul)	±1.2		±0.08	±0.11			±0.27	±0.21				
<i>C. acutum</i> subsp. <i>Sibiricum</i>	7.8	1	0.84	2.18	1	0	1.61	5.05	0	1	1	1
(S. Güven 06 & S. Makbul)	±1.6		±0.06	±0.15			±0.12	±0.28				
<i>G. fruticosus</i>	19.1	1	0.55	1.90	1	0	3.01	6.50	1	1	0	2
(A. Baytop 23571)	±1.6		±0.07	±0.14			±0.20	±0.30				

1 Appendix. Morphological and palynological scores used in multivariate data analysis.

Taxon	X ₁₃	X ₁₄	X ₁₅	X ₁₆	X ₁₇	X ₁₈	X ₁₉	X ₂₀	X ₂₁	X ₂₂	X ₂₃	X ₂₄
<i>P. gracilis</i>	0	0.23	1.28	0	0	1.48	0	0	0	13.80	16.87	0
(S. Güven 177 & S. Makbul)		±0.05	±0.07			±0.10				±1.90	±2.07	
<i>P. graeca</i>	0	1.20	2.07	0	0	3.04	0	0	0	18.93	23.73	0
(S. Güven 100 & S. Makbul)		±0.01	±0.12			±0.15				±3.41	±2.55	
<i>P. graeca</i>	0	1.12	1.94	0	0	3.08	0	0	0	18.95	22.60	0
(S. Güven 178 & S. Makbul)		±0.11	±0.09			±0.43				±1.70	±2.84	
<i>A. sericifera</i>	1	3.46	4.10	1	1	10.85	1	1	1	34.45	55.72	0
(S. Güven 185 & S. Makbul)		±0.13	±0.23			±0.52				±4.84	±7.63	
<i>C. erecta</i>	1	0.33	0.87	1	1	2.59	1	1	1	21.07	30.46	0
(S. Güven 181 & S. Makbul)		±0.05	±0.08			±0.21				±4.03	±3.11	
<i>C. erecta</i>	1	0.68	0.93	1	1	3.80	1	1	1	22.27	27.34	0
(S. Güven 40 & S. Makbul)		±0.08	±0.15			±0.37				±2.27	±3.31	
<i>C. erecta</i>	1	0.39	0.86	1	1	2.92	1	1	1	26.00	32.98	0
(S. Güven 54 & S. Makbul)		±0.05	±0.10			±0.79				±4.82	±4.13	
<i>C. erecta</i>	1	0.70	1.18	1	1	3.51	1	1	1	20.32	28.19	0
(S. Güven 92 & S. Makbul)		±0.09	±0.10			±0.33				±4.74	±5.76	
<i>C. acutum</i> subsp. <i>acutum</i>	1	0.75	1.67	1	0	2.68	1	1	1	33.43	41.89	0
(S. Güven 183 & S. Makbul)		±0.05	±0.22			±0.12				±3.37	±4.63	
<i>C. acutum</i> subsp. <i>acutum</i>	1	1.09	2.26	1	0	3.31	1	1	1	37.85	50.23	0
(S. Güven 188 & S. Makbul)		±0.08	±0.08			±0.21				±6.12	±6.59	
<i>C. acutum</i> subsp. <i>acutum</i>	1	0.92	1.92	1	0	2.36	1	1	1	29.36	35.45	0
(S. Güven 190 & S. Makbul)		±0.03	±1.23			±0.12				±2.98	±2.48	
<i>C. acutum</i> subsp. <i>Sibiricum</i>	1	0.72	1.01	1	0	2.13	1	1	1	32.77	44.80	0
(S. Güven 06 & S. Makbul)		±0.04	±0.11			±0.10				±5.75	±6.39	
<i>G. fruticosus</i>	1	0.33	2.90	1	0	4.67	1	1	1	60.00	84.71	1
(A. Baytop 23571)		±0.06	±0.10			±0.15				±7.63	±9.75	

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