

Class	Order	Alliance	Associations	Subassociations	Plot No	Size of plot (m ²)	Date	Coordinates	Aspect	Slope (%)	Height of shrub layer (cm)	Coverage of shrub layer (%)	Height of herb layer (cm)	Coverage of herb layer (%)	Altitude (m)	Total species richness (vascular plants)
			Bunio microcarpae-Festucetum pinifoli	oxytropetosum lazicae	N40°27'20"	16/07/2016	E38°23'17"	SW	25	30	20	20	20	20	20	20
				verbascetosum froedtii	N40°27'20"	16/07/2016	E38°23'17"	SW	25	30	20	20	20	20	20	20
					N40°27'21"	16/07/2016	E38°23'18"	SW	25	30	20	20	20	20	20	20
					N40°27'22"	16/07/2016	E38°23'19"	SW	25	30	20	20	20	20	20	20
					N40°27'23"	16/07/2016	E38°23'20"	SW	25	30	20	20	20	20	20	20
					N40°27'24"	16/07/2016	E38°23'21"	SW	25	30	20	20	20	20	20	20
					N40°27'25"	16/07/2016	E38°23'22"	SW	25	30	20	20	20	20	20	20
					N40°27'26"	16/07/2016	E38°23'23"	SW	25	30	20	20	20	20	20	20
					N40°27'27"	16/07/2016	E38°23'24"	SW	25	30	20	20	20	20	20	20
					N40°27'28"	16/07/2016	E38°23'25"	SW	25	30	20	20	20	20	20	20
					N40°27'29"	16/07/2016	E38°23'26"	SW	25	30	20	20	20	20	20	20
					N40°27'30"	16/07/2016	E38°23'27"	SW	25	30	20	20	20	20	20	20
					N40°27'31"	16/07/2016	E38°23'28"	SW	25	30	20	20	20	20	20	20
					N40°27'32"	16/07/2016	E38°23'29"	SW	25	30	20	20	20	20	20	20
					N40°27'33"	16/07/2016	E38°23'30"	SW	25	30	20	20	20	20	20	20
					N40°27'34"	16/07/2016	E38°23'31"	SW	25	30	20	20	20	20	20	20
					N40°27'35"	16/07/2016	E38°23'32"	SW	25	30	20	20	20	20	20	20
					N40°27'36"	16/07/2016	E38°23'33"	SW	25	30	20	20	20	20	20	20
					N40°27'37"	16/07/2016	E38°23'34"	SW	25	30	20	20	20	20	20	20
					N40°27'38"	16/07/2016	E38°23'35"	SW	25	30	20	20	20	20	20	20
					N40°27'39"	16/07/2016	E38°23'36"	SW	25	30	20	20	20	20	20	20
					N40°27'40"	16/07/2016	E38°23'37"	SW	25	30	20	20	20	20	20	20
					N40°27'41"	16/07/2016	E38°23'38"	SW	25	30	20	20	20	20	20	20
					N40°27'42"	16/07/2016	E38°23'39"	SW	25	30	20	20	20	20	20	20
					N40°27'43"	16/07/2016	E38°23'40"	SW	25	30	20	20	20	20	20	20
					N40°27'44"	16/07/2016	E38°23'41"	SW	25	30	20	20	20	20	20	20
					N40°27'45"	16/07/2016	E38°23'42"	SW	25	30	20	20	20	20	20	20
					N40°27'46"	16/07/2016	E38°23'43"	SW	25	30	20	20	20	20	20	20
					N40°27'47"	16/07/2016	E38°23'44"	SW	25	30	20	20	20	20	20	20
					N40°27'48"	16/07/2016	E38°23'45"	SW	25	30	20	20	20	20	20	20
					N40°27'49"	16/07/2016	E38°23'46"	SW	25	30	20	20	20	20	20	20
					N40°27'50"	16/07/2016	E38°23'47"	SW	25	30	20	20	20	20	20	20
					N40°27'51"	16/07/2016	E38°23'48"	SW	25	30	20	20	20	20	20	20
					N40°27'52"	16/07/2016	E38°23'49"	SW	25	30	20	20	20	20	20	20
					N40°27'53"	16/07/2016	E38°23'50"	SW	25	30	20	20	20	20	20	20
					N40°27'54"	16/07/2016	E38°23'51"	SW	25	30	20	20	20	20	20	20
					N40°27'55"	16/07/2016	E38°23'52"	SW	25	30	20	20	20	20	20	20
					N40°27'56"	16/07/2016	E38°23'53"	SW	25	30	20	20	20	20	20	20
					N40°27'57"	16/07/2016	E38°23'54"	SW	25	30	20	20	20	20	20	20
					N40°27'58"	16/07/2016	E38°23'55"	SW	25	30	20	20	20	20	20	20
					N40°27'59"	16/07/2016	E38°23'56"	SW	25	30	20	20	20	20	20	20
					N40°28'00"	16/07/2016	E38°23'57"	SW	25	30	20	20	20	20	20	20
					N40°28'01"	16/07/2016	E38°23'58"	SW	25	30	20	20	20	20	20	20
					N40°28'02"	16/07/2016	E38°23'59"	SW	25	30	20	20	20	20	20	20
					N40°28'03"	16/07/2016	E38°24'00"	SW	25	30	20	20	20	20	20	20
					N40°28'04"	16/07/2016	E38°24'01"	SW	25	30	20	20	20	20	20	20
					N40°28'05"	16/07/2016	E38°24'02"	SW	25	30	20	20	20	20	20	20
					N40°28'06"	16/07/2016	E38°24'03"	SW	25	30	20	20	20	20	20	20
					N40°28'07"	16/07/2016	E38°24'04"	SW	25	30	20	20	20	20	20	20
					N40°28'08"	16/07/2016	E38°24'05"	SW	25	30	20	20	20	20	20	20
					N40°28'09"	16/07/2016	E38°24'06"	SW	25	30	20	20	20	20	20	20
					N40°28'10"	16/07/2016	E38°24'07"	SW	25	30	20	20	20	20	20	20
					N40°28'11"	16/07/2016	E38°24'08"	SW	25	30	20	20	20	20	20	20
					N40°28'12"	16/07/2016	E38°24'09"	SW	25	30	20	20	20	20	20	20
					N40°28'13"	16/07/2016	E38°24'10"	SW	25	30	20	20	20	20	20	20
					N40°28'14"	16/07/2016	E38°24'11"	SW	25	30	20	20	20	20	20	20
					N40°28'15"	16/07/2016	E38°24'12"	SW	25	30	20	20	20	20	20	20
					N40°28'16"	16/07/2016	E38°24'13"	SW	25	30	20	20	20	20	20	20
					N40°28'17"	16/07/2016	E38°24'14"	SW	25	30	20	20	20	20	20	20
					N40°28'18"	16/07/2016	E38°24'15"	SW	25	30	20	20	20	20	20	20
					N40°28'19"	16/07/2016	E38°24'16"	SW	25	30	20	20	20	20	20	20
					N40°28'20"	16/07/2016	E38°24'17"	SW	25	30	20	20	20	20	20	20
					N40°28'21"	16/07/2016	E38°24'18"	SW	25	30	20	20	20	20	20	20
					N40°28'22"	16/07/2016	E38°24'19"	SW	25	30	20	20	20	20	20	20
					N40°28'23"	16/07/2016	E38°24'20"	SW	25	30	20	20	20	20	20	20
					N40°28'24"	16/07/2016	E38°24'21"	SW	25	30	20	20	20	20	20	20
					N40°28'25"	16/07/2016	E38°24'22"	SW	25	30	20	20	20	20	20	20
					N40°28'26"	16/07/2016	E38°24'23"	SW	25	30	20	20	20	20	20	20
					N40°28'27"	16/07/2016	E38°24'24"	SW	25	30	20	20	20	20	20	20
					N40°28'28"	16/07/2016	E38°24'25"	SW	25	30	20	20	20	20	20	20
					N40°28'29"	16/07/2016	E38°24'26"	SW	25	30	20	20	20	20	20	20
					N40°28'30"	16/07/2016	E38°24'27"	SW	25	30	20	20	20	20	20	20
					N40°28'31"	16/07/2016	E38°24'28"	SW	25	30	20	20	20	20	20	20
					N40°28'32"	16/07/2016	E38°24'29"	SW	25	30	20	20	20	20	20	20
					N40°28'33"	16/07/2016	E38°24'30"	SW	25	30	20	20	20	20	20	20
					N40°28'34"	16/07/2016	E38°24'31"	SW	25	30	20	20	20	20	20	20
					N40°28'35"	16/07/2016	E38°24'32"	SW	25	30	20	20	20	20	20	20
					N40°28'36"	16/07/2016	E38°24'33"	SW	25	30	20	20	20	20	20	20
					N40°28'37"	16/07/2016	E38°24'34"	SW	25	30	20	20	20	20	20	20
					N40°28'38"	16/07/2016	E38°24'35"	SW	25	30	20	20	20	20	20	20
					N40°28'39"	16/07/2016	E38°24'36"	SW	25	30	20	20	20	20	20	20
					N40°28'40"	16/07/2016	E38°24'37"	SW	25	30	20	20	20	20	20	20
					N40°28											

Class	*** <i>Caricetia curvulae</i> Br.-Bl. 1948		** <i>Caricetalia curvulae</i> Br.-Bl. in Br.-Bl. et Jemny 1926		* <i>Agrostia lazicae-Sibbaldion parviflorae</i> Vural 1996		Astragal microcephali-Brometea tomentelli Quézel 1973 em Parolly		Hyperico linarioidis-Thymetalia scorpiifoli Akman, Quézel, Yurdakulol, Ketenoglu, Demiriors 1987		Pediculario comosa-Asterion alpini Akman, Quézel, Yurdakulol, Ketenoglu, Demiriors 1987		Alyso pseudo-mouradici-Juniperetum saxatilis	
Order	Bunio microcarpa-Festucetum piniifoli		verbascetosum-froedii		Lotus corniculati-Festucetum turcici		Lotus corniculati-Festucetum turcici		Alyso pseudo-mouradici-Juniperetum saxatilis		Alyso pseudo-mouradici-Juniperetum saxatilis		Alyso pseudo-mouradici-Juniperetum saxatilis	
Alliance	oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae	
Subassociations	oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae		oxytropetosum lazicae	
Plot No	10		9		8		7		6		5		4	
Size of plot (m ²)	20		20		20		20		20		20		20	
Date	16/07/2016		16/07/2016		16/07/2016		16/07/2016		16/07/2016		16/07/2016		16/07/2016	
Coordinates	N40°27'20" E38°23'17"		N40°27'20" E38°23'17"		N40°27'20" E38°23'17"		N40°27'20" E38°23'17"		N40°27'20" E38°23'17"		N40°27'20" E38°23'17"		N40°27'20" E38°23'17"	
Aspect	SW		SW		SW		SW		SW		SW		SW	
Slope (%)	25		30		30		30		30		30		30	
Height of shrub layer (cm)	0		0		0		0		0		0		0	
Coverage of shrub layer (%)	0		0		0		0		0		0		0	
Height of herb layer (cm)	40		40		40		40		40		40		40	
Coverage of herb layer (%)	85		85		85		85		85		85		85	
Altitude (m)	2200		2200		2200		2200		2200		2200		2200	
Total species richness (vascular plants)	26		25		25		25		25		25		25	
H <i>Timonium armenium</i>
H <i>Thlaspi ochroleucum</i>
H <i>Sisymbrium elatum</i>
H <i>Bromus danthoniae</i>
H <i>Pedicularis caucasic</i>
H <i>Onobrychis montana</i> subsp. <i>caduca</i>
H <i>Crabro orientalis</i> var. <i>orientalis</i>
H <i>Lanium galactophyllum</i>
H <i>Myosotis lithospermifolia</i>
H <i>Nepeta nuda</i> subsp. <i>nuda</i>
H <i>Potentilla cappadocica</i>
G <i>Gagea glaciis</i>
H <i>Senecio viscosus</i>
H <i>Asperula laxiflora</i>
G <i>Avenone narcissiflora</i> subsp. <i>wildenowii</i>
H <i>Cirsium edchinus</i>
Ch <i>Astragalus barbo-jovis</i> var. <i>barbo-jovis</i>
H <i>Digitalis lamarkii</i>
H <i>Marrubium astracanicum</i> subsp. <i>astracanicum</i>
H <i>Stellaria holostea</i>
H <i>Myosotis alpestris</i>
H <i>Helictrysum armenicum</i> subsp. <i>armenicum</i>
H <i>Senecio pseudo-orientalis</i>

Less common species:
Geranium ibericum subsp. *jibatum* [H], 31: +; *Asyneuma amplexicaule* subsp. *amplexicaule* [H], 31: +; *Lapsana communis* var. *alpestris* [H], 42: +; *Aethionema ibericum* [H], 17: +; *47: +; Trifolium hybridum* var. *anatolicum* [H], 33: 1; *Galium verum* subsp. *verum* [H], 53: 1; *57: 1; Leonodon crispus* var. *asper* [H], 14: +; *15: +; Hieracium giresunense* [H], 16: +; *13: +; Minuartia hybrida* subsp. *turcica* [H], 51: 1; *53: 1; Nepeta italica* [H], 6: +; *7: +; Lamium macroron* [H], 19: +; *20: +; Carduus lanuginosus* [H], 22: +; *24: +; Centaurea reuterana* subsp. *reuterana* [H], 14: +; *15: +; Allium aucheri* [G], 14: +; *16: 1; Euphorbia rigida* [H], 14: +; *15: +; Polygonum alpinum* [H], 12: +; *13: +; Minuartia hybrida* subsp. *turcica* [H], 51: 1; *53: 1; Sedum pallidum* var. *bilynicum* [H], 15: 1; *Acanthidion bracteatum* var. *bracteatum* [Ch], 18: 1; *Cirsium rhizocephalum* subsp. *sinuatum* [H], 7: +; *Alyssum armenium* [H], 18: +; *Crucianella glanica* subsp. *pontica* [H], 6: +; *Asperula suavis* [H], 16: +; *Astragalus abyssoides* [H], 14: 1; *Bromus lanceolatus* [H], 16: 1; *Euphorbia pectinata* [H], 42: +; *Gymnadenia conopsea* [G], 32: r; *Poa chixti* [H], 15: 1; *Stipa threnbergiana* [H], 20: +; *Arabis alpina* subsp. *alpina* [H], 52: +; *Euphorbia herniariaefolia* var. *glaberrima* [H], 53: 1; *Thlaspi huetii* [T], 51: 1; *Festuca oreophila* [H], 52: 1; *Rosa canina* [Ch], 53: +; *Cyclamen parviflorum* subsp. *parviflorum* [G], 32: r

On-line Suppl. Tab. 2. Intraset correlation coefficient and eigenvalues of the first two axes for canonical correspondence analysis and environmental variables. Bold refers to the highly significant ones.

	Axis 1	Axis 2
Aspect	-0.30	0.64
Slope	-0.50	-0.61
Altitude	0.05	0.80
Soil moisture ratio (SM)	-0.97	0.14
pH	-0.43	0.01
Soil clay content (Clay)	-0.94	0.13
Total soil nitrogen ratio (N)	-0.98	0.14
Canonical eigenvalue	0.70	0.51
% variance explained	13.75	10.12
Cumulative % variance	13.75	23.87
Kendal rank correlation of species/environment scores	0.72	0.66