

On-line Supplement Tab. 1. Relevés of *Erucastrum virgatum centaureosum tauromenitanae* facies with *Silene fruticosa*. Life forms: T – Therophytes; Ch – Chamaephytes; H – Hemicryptophytes; G – Geophytes; P – Phanerophytes; NP – Nanophanerophytes. Chlorologic element: Med. – Mediterranean; End. sic. – Endemic to Sicily; End. It.-sic. – Endemic to Italy and Sicily; Euro-Med. – Euro-Mediterranean; Euro-Med.-Iran-Tur – Euro-Mediterranean-Iran-Turanian; Med.-Atl. – Mediterranean-Atlantic; Med.-Trop. – Mediterranean-Tropical; Neotrop. – Neotropical; Paleotemp. – Paleotemperate. Aspect: S – south; W – west; NE – northeast; SE – southeast. Rock type: UG – Limestone and dolomite with biocalcareites and brachiopods gray; UT – Limestone and dolomite with rudites clasts of quartz at the base. Localities and date of the relevés: Rel. 1–3, Monte Veneretta, 20.03.2012; Rel. 24, Monte Veneretta, 01.05.2010; Rel. 25–26, Monte Veneretta, 23.08.2010; Rel. 27–35, Monte Veneretta, 10.06.2012; Rel. 41–45, Costa Ogliastro, 30.04.2012. According to the Braun-Blanquet method in each relevé the complete list of vascular plant species was recorded and for each species the cover value (percentage of soil surface) was assessed (\pm : <1% cover; 1: 1–5% cover; 2: 5–25% cover; 3: 25–50% cover; 4: 50–75% cover; 5: >75% cover).

	Localities	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	
	Relevé number	1	2	3	24	25	26	27	28	29	30	31	32	33	34	35	41	42	43	44
Surface (mq)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
Coverage (%)		80	90	95	70	70	80	80	80	80	80	85	75	90	75	80	85	80	90	
Aspect		S	E	S	SE	NE	SE	N	N	N	E	SE	E	E	E	NE	NE	E	E	
Slope (°)		60	70	60	90	80	90	80	70	80	90	85	80	90	85	80	90	90	90	
Rock type		OMc	OMc	OMc	UT															
Altitude (m)		467	466	460	852	805	800	760	761	763	766	770	796	807	790	788	458	452	444	434
Distance from sea (m)		2210	2210	2210	2700	2700	2700	2762	2762	2762	2762	2700	2700	2700	2700	1850	1840	1555	1555	
N. species		22	22	20	30	32	21	21	19	28	24	28	29	32	31	17	18	21	23	
Char. Ass.																				
End. It.-sic. H scap	<i>Erucastrum virgatum</i> (J. & C. Presl) C. Presl	+	+	+	+	1	1	2	1	1	1	1	2	1	2	+	+	+	2	
End. sic.	<i>Chrysanthemum tauromenitana</i> (Guss.) Holub	2	3	3	3	2	3	3	3	4	3	4	3	3	4	3	3	3	2	
EMed.	<i>Char. Dianthus rupicolae</i>																			
	<i>Ch suffr. Silene fruticosa</i> L.																			
		2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

On-line Supplement Tab. 1. – continued

			Localities	Relevé number	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	
C Med.	Ch suffr	<i>Brassica incana</i> Ten.	–	–	1	2	3	24	25	26	27	28	29	30	31	32	33	34	35	41	42	43	44	45
End. sic.	H scap	<i>Anthyllis vulneraria</i> L. subsp. <i>busambarensis</i> (Lojac.) Pignatti	–	–	1	+	1	1	2	1	+	+	1	2	2	+	–	+	+	1	16	15	15	15
End. It.-sic.	Ch suffr	<i>Dianthus rupicola</i> Biv. subsp. <i>rupicola</i>	–	–	1	2	1	–	–	–	–	–	+	1	1	1	+	1	1	1	1	1	1	12
End. sic.	Ch suffr	<i>Dianthus siculus</i> C. Presl in J. & C. Presl	–	–	+	+	1	1	+	1	2	1	1	1	–	–	–	–	–	–	–	–	–	12
Char. <i>Asplenietea trichomanis</i> and <i>Asplenietalia glandulosi</i>																								
S Med.	H ros	<i>Hypochoeris laevigata</i> (L.) Ces.	–	+	+	1	2	2	2	1	1	1	+	+	1	1	1	1	1	1	2	1	1	19
SO-Med.	H scap	<i>Ahamanta sicutia</i> L.	–	–	2	1	+	2	1	1	1	1	1	1	2	1	1	1	1	1	1	2	1	17
C Med.	Ch frut	<i>Ballota hispanica</i> (L.) Benth.	–	–	–	+	–	–	–	–	–	+	+	1	1	+	1	1	+	1	+	+	1	13
Med.	Ch frut	<i>Teucrium flavum</i> L.	–	–	–	1	1	3	2	2	2	1	2	2	1	–	–	–	–	–	–	–	–	11
Euro-Med.-Iran.-Tur	H ros	<i>Ceterach officinarum</i> Wild.	–	–	–	+	1	+	+	–	–	+	+	+	+	+	–	–	–	–	–	–	–	11
Euro-Med.	Ch succ	<i>Sedum dasypetalum</i> L.	+	+	–	1	+	–	–	–	+	+	+	+	–	–	–	–	–	–	–	–	–	10
Med.-Trop.-G bulb	G bulb	<i>Umbilicus rupestris</i> (Salisb.) Dandy	–	–	–	–	+	+	–	–	–	–	–	–	–	–	–	–	–	–	+	+	+	6
Euro-Med.	H ros	<i>Polyodium cambricum</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	6
N Med.	P scap	<i>Ficus carica</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3
C Med.	Ch frut	<i>Lomelosia cretica</i> (L.) Greuter & Burdet	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2
Paleotemp.	Ch succ	<i>Sedum album</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
O Med.	H ros	<i>Cheilanthes maderensis</i> Lowe	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1

On-line Supplement Tab. 1. – continued

		Localities	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		Relevé number	1	2	3	24	25	26	27	28	29	30	31	32	33	34	35	41	42	43	44	45				
Other species																										
E Med.	NP	<i>Phlomis fruticosa</i> L.	+	1	1	+	2	1	+	1	+	1	1	1	1	1	1	1	2	1	1	2	1	1	2	20
O Med.	H caesp	<i>Ampelodesmos mauritanicus</i> (Poir.) T.	1	2	1	–	+	1	+	1	+	+	+	+	+	+	1	+	+	+	+	+	+	+	+	19
End. It.-sic.	Ch suffr	<i>Micromeria graeca</i> (L.) Benth. ex Rchb. subsp. <i>consentanea</i> (Ten.) Guinée	+	1	1	1	1	1	1	+	1	2	1	1	1	1	–	–	–	+	+	+	+	+	+	17
Med.	Ch frut	<i>Prasium majus</i> L.	+	+	–	1	1	–	–	–	–	+	1	+	1	+	+	+	+	+	+	+	+	+	+	16
O Med.	Ch suffr	<i>Phagnalon saxatile</i> (L.) Cass.	1	+	1	–	+	1	–	–	–	–	+	+	1	1	+	+	+	+	+	+	+	+	+	15
Med.	NP	<i>Bupleurum fruticosum</i> L.	–	–	–	1	+	1	+	1	+	+	+	+	–	2	+	1	1	1	1	1	1	1	1	15
End. It.-sic.	H scap	<i>Galium aenescens</i> Biv.	+	1	+	–	+	1	+	1	1	1	1	1	1	–	–	–	–	–	–	–	–	–	–	14
Med.	H scap	<i>Silene vulgaris</i> (Moench) Garcke subsp. <i>tenoreana</i> (Colla) Soldano & F. Conti	–	–	–	+	1	+	1	+	1	+	1	+	1	1	–	–	–	–	–	–	–	–	–	12
Euro-Med.	H caesp	<i>Festuca circummediterranea</i> Patzke	–	–	–	+	+	1	1	+	1	+	1	+	1	1	1	1	1	1	1	1	1	1	1	12
Med.	H scap	<i>Bituminaria bituminosa</i> (L.) E. H. Stirton	1	+	1	–	+	1	–	–	–	–	+	+	+	1	1	1	1	1	1	1	1	1	1	11
Med.	H caesp	<i>Melica minuta</i> L.	–	–	–	–	–	1	+	1	+	1	+	1	+	1	+	1	1	1	1	1	1	1	1	9
Med.	H bien	<i>Seseli tortuosum</i> L. subsp. <i>tortuosum</i>	1	+	1	–	–	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	9
O Med.	NP	<i>Teucrium fruticans</i> L.	1	2	1	–	–	–	–	–	–	–	–	–	–	–	–	–	1	+	1	+	1	+	1	8
Med.	NP	<i>Emerus major</i> Mill. subsp. <i>emeroides</i> (Boiss. & Spruner) Soldano & F. Conti	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8
Med.	H ros	<i>Hyoseris radiata</i> L.	–	–	–	1	+	1	+	1	+	1	–	–	–	–	–	–	–	–	–	–	–	–	–	6
Med.	Ch suffr	<i>Ruta chalepensis</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5
Med.	H scap	<i>Lobularia maritima</i> (L.) Desv.	+	+	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5
Med.	P caesp	<i>Rhamnus alaternus</i> L.	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5
Med.	P caesp	<i>Pistacia terebinthus</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5

On-line Supplement Tab. 1. – continued

Online Supplement Tab. 2. Relevés of *Erucastrum virgatum centaureosum tauromenitanae* facies with *Lomelosia cretica*. Life forms: T – Therophytes; Ch – Chamaephytes; H – Hemicryptophytes; G – Geophytes; P – Phanerophytes; NP – Nanophanerophytes. Chorologic element: Med. – Mediterranean; End. sic. – Endemic to Sicily; End. It.-sic. – Endemic to Italy and Sicily; Euro-Med. – Euro-Mediterranean; Euro-Med.-Iran.-Tur – Euro-Mediterranean-Iran-Turanian; Med.-Atl. – Mediterranean-Atlantic; Med.-Trop. – Mediterranean-Tropical; Neotrop. – Neotropical; Paleotempr. – Paleotemperate. Aspect: S – south; W – west; NE – northeast; SE – southeast. Rock type: UG – Limestone and dolomite with biocalcareous and brachiopods gray; UT – Limestone and dolomite with rudites clasts of quartz at the base. Localities and date of the relevés: Rel. 12–13. Madonna della Rocca (Taormina), 03.05.2012; Rel. 14, Castelmola, 03.05.2013; Rel. 15–18, Castelmola, 08.04.2012; Rel. 19–21, Castelmola, 08.04.2012; Rel. 22–23, Roccella (Castelmola), 07.01.2011; Rel. 36–40, Monte Ziretto, 22.04.2012; Rel. 54–56, Monte Castellaccio, 07.04.2012; Rel. 4–5, Villagonia (Taormina), 16.06.2010; Rel. 6, Villagonia (Taormina), 25.07.2010; Rel. 7–9, Isola Bella, 07.04.2012; Rel. 11, Madonna della Rocca (Taormina), 25.07.2010; Rel. 46–49, Monte Lapa, 13.05.2012; Rel. 50–53, Monte Pernice, 10.06.2012. According to the Braun-Blanquet method in each relevé the complete list of vascular plant species was recorded and for each species the cover value (percentage of soil surface) was assessed (+: <1% cover; 1: 1–5% cover; 2: 5–25% cover; 3: 25–50% cover; 4: 50–75% cover; 5: >75% cover).

	Localities	2	2	3	3	3	3	3	3	3	5	5	5	5	8	8	2	2	2	2	2	2	6	6	6	7	7	7	7								
	Relevé number	12	13	14	15	16	17	18	19	20	21	22	23	36	37	38	39	40	54	55	56	4	5	6	7	8	9	10	11	46	47	48	49	50	51	52	53
Char. <i>Dianthion rupicola</i>																																					
End. It.-sic. Ch suffr	<i>Dianthus rupicola</i> Biv. subsp. <i>rupicola</i>	1	+	2	3	1	2	2	+	1	1	2	3	1	+	1	1	2	2	3	3	1	1	2	2	3	1	2	1	1	2	2	36				
End. It.-sic. Ch fruit	<i>Anthrithrum siculum</i> Mill.	+	+	2	+	1	+	+	1	+	1	–	–	–	+	+	+	+	+	+	+	+	–	–	–	–	–	–	–	–	–	–	–	23			
E Med.	<i>Ch suffr</i>	<i>Silene fruticosa</i> L.	+	1	1	+	1	1	–	–	–	–	+	1	1	+	1	+	–	–	+	+	–	1	1	1	2	1	–	–	–	–	22				
End. sic.	H scap	<i>Anthyllis vulneraria</i> L. subsp. <i>bisanensis</i> (Lojic.) Pignatti	–	–	+	1	+	1	2	2	1	–	1	+	2	1	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	20				
C Med.	Ch suffr	<i>Brassica incana</i> Ten.	–	–	2	1	1	2	+	2	–	–	–	+	+	3	2	1	–	–	1	1	+	–	–	+	+	–	–	–	–	–	18				
NO-Med.	Ch suffr	<i>Matthiola incana</i> (L.) R. Br. in W.T. Aiton subsp. <i>rupicola</i> (Kaf.) Nyman	–	–	1	+	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4					
Char. <i>Asplenietea trichomanis</i> and <i>Asplenietalia glandulosi</i>																																					
C Med.	Ch fruit	<i>Lomelosia cretica</i> (L.) Greuter & Burdet	1	3	2	3	1	1	2	1	3	2	3	1	1	2	1	2	3	2	3	4	2	4	4	4	4	4	3	1	2	1	4	3	4	36	
Med.	Ch fruit	<i>Teucrium flavum</i> L.	–	–	–	+	1	1	1	+	+	–	–	1	+	+	1	+	–	–	–	–	–	+	1	+	1	2	2	2	2	2	2	22			
Euro-Med.	Ch succ	<i>Securidochelyphllum</i> L.	+	+	+	+	–	–	–	–	–	–	+	+	+	+	+	+	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	18			
SO-Med.	H scap	<i>Athamanta sicula</i> L.	+	+	2	2	1	+	2	–	–	1	+	–	–	1	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	15			
Euro-Med.-Iran-Tur	H ros	<i>Ceterach officinaria</i> Willd.	+	+	+	+	–	–	–	–	–	–	1	+	1	+	+	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14			
C Med.	Ch fruit	<i>Balloa hispanica</i> (L.) Benth.	1	+	1	+	+	+	–	–	–	–	–	–	–	–	+	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13		
N Med.	P scap	<i>Ficus carica</i> L.	–	–	1	–	–	+	+	+	–	+	1	+	1	+	+	–	–	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	13		
S Med.	H ros	<i>Hypochoeris laevigata</i> (L.) Ces.	–	–	1	2	1	+	1	–	–	+	+	1	+	1	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12			
Paleotemp.	Ch succ	<i>Sedum album</i> L.	+	–	–	–	–	–	–	–	–	–	1	+	1	+	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	8				
Med.-Trop.	G bulb	<i>Umbilicus rupestris</i> (Salisb.) Dandy	+	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4				
Euro-Med.	H ros	<i>Polyodium cambricum</i> L.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2				
Other species																																					
End. It.-sic. Ch suffr	<i>Micromeria graeca</i> (L.) Benth. ex Rechb.	+	+	1	+	+	–	+	1	1	1	+	1	+	1	1	+	1	–	1	+	1	1	1	1	1	1	1	1	1	1	1	33				
Med.	NP	<i>Euphorbia dendroides</i> L.	1	1	+	1	1	+	2	2	1	1	+	1	2	1	1	+	1	–	1	+	1	1	–	1	+	1	+	1	+	1	+	33			

ECOLOGY OF *COLYMBADA TAUROMENITANA* IN THE EASTERN SICILY (ITALY)

On-line Supplement Tab. 2. – continued

On-line Supplement Tab. 2. – continued

On-line Supplement Tab. 3. Relevés of *Ericastrum virgati dianthetosum siculi*. Life forms: T – Therophytes; Ch – Chamaephytes; H – Hemicyclopediae; G – Geophytes; P – Phanerophytes; NP – Nanophanerophytes. Chorologic element: Med. – Mediterranean; End. sic. – Endemic to Sicily; End. It.-sic. – Endemic to Italy and Sicily; Euro-Med. – Euro-Mediterranean; Euro-Med.-Iran.-Tur – Euro-Med.-Iranian; Med.-Atl. – Mediterranean-Atlantic; C: Med.-Trop. – Mediterranean-Tropical; Neotrop. – Neotropical; Paleotemp. – Paleotemperate. Aspect: S – south; W – west; NE – northeast; SE – southeast. Rock type: UG – Limestone and dolomite with biocalcarenites and brachiopods gray; UT – Limestone and dolomite with rudites clasts of quartz at the base. Localities and date of the relevés: Rel. 57–59, Monte Galfa, 25.06.2012; Rel. 60–61, Monte Galfa, 26.07.2012. According to the Braun-Blanquet method in each relevé the complete list of vascular plant species was recorded and for each species the cover value (percentage of soil surface) was assessed (+: <1% cover; 1: 1–5% cover; 2: 5–25% cover; 3: 25–50% cover; 4: 50–75% cover; 5: >75% cover).

	Localities	Relevé number	9	9	9	9	9
Aspect			W	S	NE	S	SE
Slope (°)			90	90	90	80	80
Rock type			UG	UG	UT	UT	UT
Altitude (m)			928	917	920	723	719
Distance from sea (m)			6700	6700	6700	6300	6300
N. species			18	22	18	24	22
Char. Ass.							Freq.
End. It.-sic.	H scap	<i>Ericastrum virgatum</i> (J. & C. Presl) C. Presl	1	1	2	1	1
		Char. <i>Dianthion rupicolae</i>					
E Med.	Ch suffr	<i>Silene fruticosa</i> L.		+	+	1	1
End. sic.	Ch suffr	<i>Dianthus siculus</i> C. Presl in J. & C. Presl		2	2	2	1
C Med.	Ch suffr	<i>Brassica incana</i> Ten.		+	1	–	1
End. sic.	H scap	<i>Anthyllis vulneraria</i> L. subsp. <i>busambarensis</i> (Lojac.) Pignatti		–	1	+	+
End. sic.	Ch frut	<i>Odonites bocconei</i> (Guss.) Walp. subsp. <i>bocconei</i>		1	+	–	–
		Char. <i>Asplenitea trichomanis</i> and <i>Asplenietalia glandulosi</i>					
Med.	Ch frut	<i>Tencrium flavum</i> L.		1	2	+	1
SO-Med.	H scap	<i>Athamanta sicula</i> L.		2	1	3	1
S Med.	H ros	<i>Hypochoeris laevigata</i> (L.) Ces.		1	1	+	5

On-line Supplement Tab. 3. – continued

			Localities	Relevé number	9	9	9	9	9	9
C Med.	Ch frut		<i>Balloota hispanica</i> (L.) Benth.	1	1	+	+	1	1	5
Euro-Med.	Ch succ		<i>Sedum dasypetalum</i> L.	–	1	+	+	+	+	4
C Med.	Ch frut		<i>Lomelosia cretica</i> (L.) Greuter & Burdet	–	–	–	3	3	3	2
Euro-Med.-Iran.-Tur	H ros		<i>Ceterach officinarum</i> Willd.	–	+	–	–	–	–	2
		Other species								
End. It.-sic.	Ch suffr		<i>Micromeria gracca</i> (L.) Benth. ex Rchb. subsp. <i>consentina</i> (Ten.) Guinea	1	1	1	+	+	+	5
E Med.	NP		<i>Phlomis fruticosa</i> L.	1	1	2	1	1	1	5
End. It.-sic.	H scap		<i>Gaulium aetnacum</i> Biv.	+	1	+	+	+	+	5
Med.	H scap		<i>Silene vulgaris</i> (Moench) Garcke subsp. <i>tenoreana</i> (Colla) Soldano & F. Conti	+	+	+	+	+	+	5
Med.	NP		<i>Emerus major</i> Mill. subsp. <i>emeroides</i> (Boiss. & Spruner) Soldano & F. Conti	1	+	–	+	1	1	4
End. It.-sic.	Ch suffr		<i>Gypsophila aristii</i> Guss.	–	+	+	+	+	+	4
O Med.	Ch suffr		<i>Phagnalon saxatile</i> (L.) Cass.	–	–	+	+	+	+	3
Med.	NP		<i>Bupleurum fruticosum</i> L.	+	1	1	–	–	–	3
Euro-Med.	H caesp		<i>Festuca circummediterranea</i> Patzke	+	1	1	–	–	–	3
Med.	NP		<i>Euphorbia dendroides</i> L.	–	–	–	+	+	+	2
O Med.	H caesp		<i>Ampelodesmos mauritanicus</i> (Poir.) T. Durand & Schinz	–	–	–	1	1	+	2
Med.	P caesp		<i>Olea europaea</i> L. var. <i>syriaca</i> (Mill.) Lehr	–	–	–	+	1	1	2
Med.	P caesp		<i>Rhamnus alaternus</i> L.	–	1	–	+	–	–	2
Med.	P scap		<i>Quercus ilex</i> L.	–	+	–	–	–	–	2
Med.	G bulb		<i>Allium ampeloprasum</i> L.	–	–	–	–	–	+	1
Med.	H caesp		<i>Melica minuta</i> L.	–	–	–	–	–	–	1
Med.	P caesp		<i>Pistacia terebinthus</i> L.	–	–	–	–	–	–	1
Med.	NP		<i>Coronilla valentina</i> L.	1	–	–	–	–	–	1