

SUPPLEMENTAL MATERIAL 2: BRYOPHYTIC CHECKLIST OF THE LIGURIAN 4090 HABITAT

BRYOPHYTES IN LIGURIAN 4090 HABITAT: ENDEMIC ORO-MEDITERRANEAN HEATHS WITH GORSE (*GENISTA DESOLEANA*)

Gabriele Berta^{1*}, Claudia Turcato², Giuseppina Barberis¹, Davide Dagnino¹

¹ Department of Earth, Environment and Life Sciences (DISTAV), Genoa University, Viale Benedetto XV, 16132 Genova, Italy.

²Ce.S.Bi.N. s.r.l., Via San Vincenzo 2 - 20th floor, 16121 Genova, Italy

*Correspondence: gabrieleberta95@gmail.com

The checklist of the Bryophytes of the Ligurian *Genista desoleana* hedgehog-heaths, with the occurrences per site, is here presented. In 12 study sites, 11 species were found.

The nomenclature of taxa and the Italian distribution is reported according to Aleffi et al. (2020). Ecological requirements, i.e. Humidity, Temperature and Light, follow Dierßen (2001). Life forms follow Mägdefrau (1982). Life strategy classification follows During (1992). Herbarium specimens are deposited in GE.

Study sites features are presented as well.

Code	Locality (Municipality)	Latitude; Longitude (WGS84 EPSG:4326)	Altitude (Meters a.s.l.)
1	Masso (Castiglione Chiavarese)	44.270109; 9.492761	295
2	Monte Croce dei Tozzi, W side (Casarza Ligure)	44.263086; 9.467245	224
3	Monte Croce dei Tozzi, W side (Casarza Ligure)	44.263400; 9.474050	301
4	Monte Merelle (Deiva Marina)	44.252477; 9.546981	508
5	Passo del Bracco (Deiva Marina)	44.252229; 9.559655	612
6	Foce di Vaggi (Framura)	44.223780; 9.591281	586
7	Colle Guaitarola (Framura)	44.218220; 9.588199	605
8	Rocchetta di Vara (Rocchetta di Vara)	44.247647; 9.750686	207
9	Monte Nero, SE side (Monterosso Al Mare)	44.15894; 9.63714	407
10	Monte Nero, SE side (Levanto)	44.15851; 9.63568	436
11	Sella de Bagari (Levanto)	44.15581; 9.63102	355
12	Rossola (Bonassola)	44.193572; 9.594979	372

Taxon	Study sites												N° of sites	Italian distribution	Humidity	Temperature	Light	Life forms	Life strategy categories	Herbarium (GE) code	
	1	2	3	4	5	6	7	8	9	10	11	12									
<i>Grimmia trichophylla</i> Grev.		x	x				x							3	All italian regions except Veneto	From moderately wet to moderately dry habitats	Mesothermophytic	From moderately shaded to considerably illuminated sites	Short turf	Perennial	B452 (site 3) B453 (site 7)
<i>Weissia controversa</i> Hedw. var. <i>controversa</i>		x	x	x	x	x	x	x						7	All italian regions except Molise (Basilicata ante 1968)	Moderately to considerably dry habitats	Considerably thermophytic	Moderately to considerably illuminated sites	Short turf	Colonist	B450 (site 2) B451 (site 4)
<i>Fissidens dubius</i> P.Beauv. var. <i>dubius</i>			x											1	All italian regions	From moderately wet to moderately dry habitats	Mesothermophytic	From considerably shaded to moderately illuminated sites	Short turf	Perennial	B454
<i>Bryum</i> sp.	x			x										2	/	/	/	/	/	/	B455 (site 1)
<i>Hypnum cupressiforme</i> Hedw. var. <i>cupressiforme</i>	x													1	All italian regions	From moderately wet to moderately dry habitats	Indifferent	From moderately shaded to moderately illuminated sites	Mat	Stress tolerant perennial	B456
<i>Dicranum scoparium</i> Hedw.	x													1	All italian regions (Puglia and Basilicata ante 1968)	From moderately wet to moderately dry habitats	Cryophytic to termophytic	From considerably shaded to considerably illuminated sites	Tall turf	Competitive perennial	B457

<i>Cephaloziella divaricata</i> (Sm.) Schiffn. var. <i>divaricata</i>	x													1	All italian regions except Molise, Puglia and Basilicata (Lazio, Veneto, Lombardia ante 1968)	From moderately wet to moderately dry habitats	From highly cryophytic to considerably thermophytic	Fully illuminated sites	Mat	Colonist	B458
<i>Grimmia laevigata</i> (Brid.) Brid.										x				1	All italian regions except Friuli-Venezia Giulia, Umbria, Molise, Puglia (Liguria ante 1968)	Very dry habitats	Moderately to highly thermophytic	Moderately to fully illuminated sites	Short turf	Colonist, long-lived shuttle	B460
<i>Campylopus introflexus</i> (Hedw.) Brid.											x	x		2	All italian regions except Valle d'Aosta, Friuli-Venezia Giulia, Emilia Romagna, Marche, Abruzzo, Molise, Puglia, Basilicata, Calabria (Campania ante 1968)	From moderately wet to moderately dry habitats	Mesothermophytic to moderately thermophytic	Fully illuminated sites	Short turf	Perennial, dominant	B459 (site 10)
<i>Ptychostomum capillare</i> (Hedw.) Holyoak & N.Pedersen													x	1	All italian regions	From moderately wet to moderately dry habitats	From considerably cryophytic to considerably thermophytic	From moderately shaded to fully illuminated sites	Short turf	Colonist	B181
<i>Trichostomum brachydontium</i> Bruch													x	1	All italian regions	From moderately wet to moderately dry habitats	Mesothermophytic to moderately thermophytic	From moderately shaded to fully illuminated sites	Short turf	Perennial, short-lived shuttle	B182

REFERENCES

- Aleffi M., Tacchi R. & Poponessi S., 2020. New checklist of the Bryophytes of Italy. *Cryptogamie, Bryologie* 41(13): 147-195. DOI: 10.5252/cryptogamie-bryologie2020v41a13
- Dierßen K., 2001. Distribution, ecological amplitude and phytosociological characterization of European bryophytes. *Bryophytorum Bibliotheca* (Band 56). J. Cramer, Berlin-Stuttgart.
- During H. J., 1992. Ecological classification of bryophytes and lichens. In: Bates J.W. & Farmer A.M. (Eds.). *Bryophytes and lichens in a changing environment*. Clarendon press, Oxford: 1-31.
- Mägdefrau K., 1982. Life-forms of bryophytes. In: Smith A. J. E. (Ed.). *Bryophyte Ecology*. Chapman and Hall, London: 45-58. DOI: 10.1007/978-94-009-5891-3_2