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Some bryological records from Mallorca (Baleares, Spain)

by

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Abstract: Some recent bryophyte records (1989, 1990, 1992) from Mallorca (Baleares Islands, Spain) are reported.

Resumen: Se presente un catálogo de briofitos recolectados en Mallorca (Islas Baleares, España) en los años 1989, 1990 y 1992.

The literature on bryophytes pertaining to the island of Mallorca, in the Western Mediterranean, seems to be very scattered (cf. Casas-Sicart 1981) and not easily accessible to bryologists from Northern Europe. Having collected some material in the previous years (1989, 1990, 1992), I decided to publish the short list of my records, which might obviously contain to a large extent species common to the island, or rare species known for a long time. In the last case, at least, there is some interest to know of recent records. If the first applies, data can surely be useful for exact bryophyte mapping in Spain (Casas & al. 1985).

With two exceptions the material was collected within the mountainous part of the island, specially in the W and NW.

The following taxa recorded by me are not cited by Düll (1983, 1984, 1985, 1992) for the Baleares Islands: *Riccia cavernosa* (non *crystallina*), *Dicranella howei*, *Grimmia tergestina* (this species has recently been mentioned by Greven 1995), *Weissia levieri*. Except for the first these are however rather frequent calcicole Mediterranean species, which have possibly been collected before, or possibly overlooked. *Weissia triumphans* and *Rhynchostegiella tenella* var. *littorea* (De Not.) Rich. & Wallace are confirmed (the latter has clearly a papillose seta).

Tortula vahliana is perhaps a rare species in the western Mediterranean.

The nomenclature of Grolle (1983) is applied for the hepatics and that of Corley & al. (1981), amended by Corley & Crundwell (1991) for the mosses. Taxa are listed in alphabetical order (table 1), starting with hepatics. Localities are numbered; the full information is given in table 2. All material collected (except for very common species) is kept in the private herbarium of the author.

It is not easy for me to draw a conclusion at the level of floristics. Pottiaceae account for about half of the records, which is normal for a Mediterranean moreover calcareous area. Five out of seven Mallorcan Grimmiaceae (Greven 1995) have been observed. From a conservationist point of view I like to stress the rich

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Table 1: Bryophytes from Mallorca. Leg. J. Werner 3/1989 and 4/1990 (Nrs 1-12), 4/1992 (Nrs 13-17). (1) teste S. Jovet-Ast, (2) teste H. Greven, (3) det. J. C. Hébrard, (4) det. C. Sérgio, (5) det. M. Brugués (Nr. 11), (6) teste J. C. Hébrard.

TAXON	***Localities Nr Localidades No***
Cephaloziella baumgartneri	3
Fossombronia caespitiformis *var.* subcristata SCHIFFN.	1
Frullania dilatata	9
Lejeunea cavifolia	1,13a
Lunularia cruciata	17
Porella obtusata	13a
Porella platyphylla	1
Radula complanata	13a,17
Riccia cavernosa **(1)**	8
Southbya tophacea	15
Acaulon triquetrum	2a
Aloina aloides	1,5,6
Barbula unguiculata	7
Bryum radiculosum	12
Bryum torquescens	11
Crossidium squamiferum	7
Ctenidium molluscum	16
Dicranella howei (12: *c.sp.*)	7,12
Didymodon acutus	16
Didymodon fallax	3
Didymodon luridus	1,3,6
Didymodon tophaceus	8
Encalypta vulgaris	14a
Eucladium verticillatum	16
Eurhynchium meridionale	1,4b,6,9,16
Eurhynchium striatulum	7
Fissidens dubius	1
Grimmia crinita	6
Grimmia lisae **(2)**	1
Grimmia orbicularis **(3)**	7
Grimmia pulvinata	8
Grimmia tergestina	2c
Gymnostomum calcareum (*c.sp.*)	1
Gymnostomum viridulum **(4)**	3,10,11

Table 1 (continued)

Hypnum cupressiforme	1 (i.a.)
Leptodon smithii	1,9,13a
Orthotrichum cupulatum	9
Philonotis fontana	17
Pleurochaete squarrosa	6 (i.a.)
Pottia davalliana *var.* conica (SCHWAEGR.) PODP.	2a
Pottia starckeana	8,13b
Pseudocrossidium revolutum	1
Pterogonium gracile	1
Rhynchostegiella tenella *var.* tenella	17
Rhynchostegiella tenella *var.* littorea (DE NOT.) PODP.	2c
Rhynchostegium megapolitanum	4,11
Scleropodium purum	6
Scleropodium touretii	1
Scorpiurium circinatum	10
Timmiella barbuloides *(c.sp.)* **(5)**	1,11,15
Tortella flavovirens	1,8
Tortella humilis *(c.sp.)*	7
Tortella nitida	9
Tortula inermis *(c.sp.)*	5
Tortula intermedia	1
Tortula marginata	12
Tortula vahliana *(c.sp.)*	2b
Trichostomum crispulum *var.* crispulum	3,4b
Trichostomum crispulum *var.* viridulum (BRUCH) DIX. *(c.sp.)* **(6)**	7
Weissia condensa *(c.sp.)*	4a,11
Weissia levieri *(c.sp.)*	7,14b
Weissia triumphans *(c.sp.)*	16
Zygodon baumgartneri	9

and diverse bryophyte flora of old stone walls and wall-caps, as those encountered by me near Valldemosa, Buñola and Puigpuñent. One can hope that economical progress in rural areas will not accelerate their destruction and replacement by plain concrete walls.

Other threatened sites seem to be the scarce relicts of *Quercus ilex* forest throughout the island and sand-dunes in the South.

Table 2: Localities.

Nr *No*	*Locality / Localidad*
1	Son Patx (4km S of Valldemosa): old orchard walls and rock under *Quercus ilex*
2a	road to San Telmo (W Andratx), on soil
2b	San Telmo , path near the Sea, on soil
2c	San Telmo, calcareous hill (ca 250m) some 3 km from the sea, on rock and soil
3	N Andratx (first mirador near road to Bañalbufar), on soil
4a	Cabo Formentor: mirador, on soil
4b	id. small valley near the sea, on soil
5	S of Bañalbufar (Atalaya), on soil
6	between Deya and Soller (mountain road), on soil
7	s' Alquería (4 km N of Andratx), *Pinus* forest, on soil and rock and on sunny walls
8	es Salinas (or: Ses Salines) (S coast), path to the sea along the salines, on walls and sand-dunes
9	hill N of Valldemosa (ca 650 m), *Pinus halepensis* forest
10	san Lorenc (Cala Milor), roadside
11	between Puigpuñent and Galilea, on walls, rock and soil
12	Paguera, Costa de la Calma, hotel Galatzo, on soil
13a	between La Calobra and Torrente de Pareis, *Quercus ilex* forest, 900 m
13b	Torrente de Pareis, on soil
14a	Lluc Monastery, mountain raod to Soller (± 800 m), on shaded rock (mostly under *Quercus pubescens*)
14b	id. intersection road to Inca, on soil
15	N of Capdella, shaded rivulet
16	Buñola, road to Orient (km 1-3), on soil
17	N Buñola , Alfabia gardens near Soller pass (tree truncs and wet soil)

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