

Bryological Monograph

Bryophyte checklist of Northern Africa

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SUMMARY

A bryophyte checklist of Northern Africa has been compiled based on the published literature. On the basis of this catalogue 5 hornworts, 171 liverworts and 706 mosses are reported for the area (total number 882). It includes Algeria (648 taxa), Egypt (excluding the Sinai Peninsula, 156 taxa), Libya (138 taxa), Mauritania (5 taxa), Morocco (594 taxa), Spanish territories in North Africa (58 taxa), Tunisia (336 taxa), Western Sahara (0 taxa), and the Saharan part of Chad (88 taxa), Mali (4 taxa) and Niger (4 taxa). Several new combinations are required following publication of this checklist. Type material of these taxa was not studied, therefore they are listed under their illegitimate names, but with their probable correct positions indicated.

KEYWORDS: North Africa, Mediterranean region, checklist, bryophyte flora.

INTRODUCTION

A checklist has been compiled as a first step to making more accessible the numerous data published on the bryophyte flora of the countries of Northern Africa. Although some partial checklists have been published, the literature is very dispersed and is often difficult to access because most of the papers are very old and/or were published in North African regional or national journals which are not readily available.

All the literature on bryophytes published in the Mediterranean and Saharan countries of Africa has been surveyed. These countries are, from west to east, Mauritania, Western Sahara, Morocco, Algeria, Tunisia, Libya, and Egypt. Northern parts of Mali, Niger, and Chad have been also included, the tropical parts of which are included in recent checklists of sub-Saharan Africa (O'Shea, 1995; Wigginton & Grolle, 1996) (Fig. 1). The Sinai Peninsula has been excluded because it forms part of the Asian continent and was included in the *Catalogue of Bryophytes of Southwest Asia* (Frey & Kürschner, 1991).

The area covered by this checklist does not exactly correspond with the area Afr 1 as defined in *Index Muscorum* (Wijk, Margadant & Florschütz, 1959-1969), which includes Macaronesia. It does, however, fit with the

concept of Afr 1 in Düll (1983, 1984, 1985, 1992). The Macaronesian Islands have usually been treated in a different way in recent years, being totally or partially included in European checklists or in separate catalogues (e.g. Eggers, 1982; Dirkse, Bouman & Losada-Lima, 1993). The checklist of Jelenc (1955a), and subsequent additions (Jelenc, 1967) which include Algeria, Tunisia, Morocco, and Sahara was taken as a starting point. For this area only the references published after 1950 have been included, because Jelenc (1955a) lists earlier papers. Also, Jelenc does not distinguish between his own records and those from the literature, and it was impossible to recognize which data had been published before. For Egypt only a partial checklist of mosses has been published (El-Saadawi & Badawi, 1977), and the authors have attempted to find all the references before and after this date. Also, for the remaining countries (Libya and Mauritania) and the Saharan part of Chad, Mali, and Niger all the published references have been compiled. No reference containing data about Western Sahara was found.

This paper is not a taxonomic work. No type material has been studied and the authors of this paper do not give their opinion about the validity of the taxa. The main intention has been to bring together the published data in order to facilitate subsequent taxonomic work.

METHODOLOGY

In general, the methodology of O'Shea (1995) was followed, since the problems found in drawing up this checklist were very similar to those faced by that author.

Two different databases (one for distribution and the other for literature) were compiled in Microsoft Access 97. In the first, the following entries were included: current species name, infraspecific level, synonyms used in the source reference, infraspecific level used in the source reference, country, province (if known), locality, literature reference number. The second database includes: literature reference number, author(s), year of publication, title, and literature citation.

Taxa mentioned in *Index Muscorum* as occurring in Afr 1 are not included unless they have appeared in a country list or publication. Taxa which Düll (1983, 1984, 1985, 1992) records as present in Afr 1 but which are not mentioned in any of the sources of reference, have been considered of doubtful occurrence in Northern Africa. The same applies to the taxa cited by El-Saadawi & Badawi (1977) although, in this case, they may be referring to taxa occurring in the Sinai Peninsula. The revision of *Riccia* in the Mediterranean Basin (Jovet-Ast, 1986) has been used to complete the list of taxa and their distribution, although in general no localities are given in that paper.

Taxa for which no country is mentioned have been included and referred to North Africa. Sometimes the

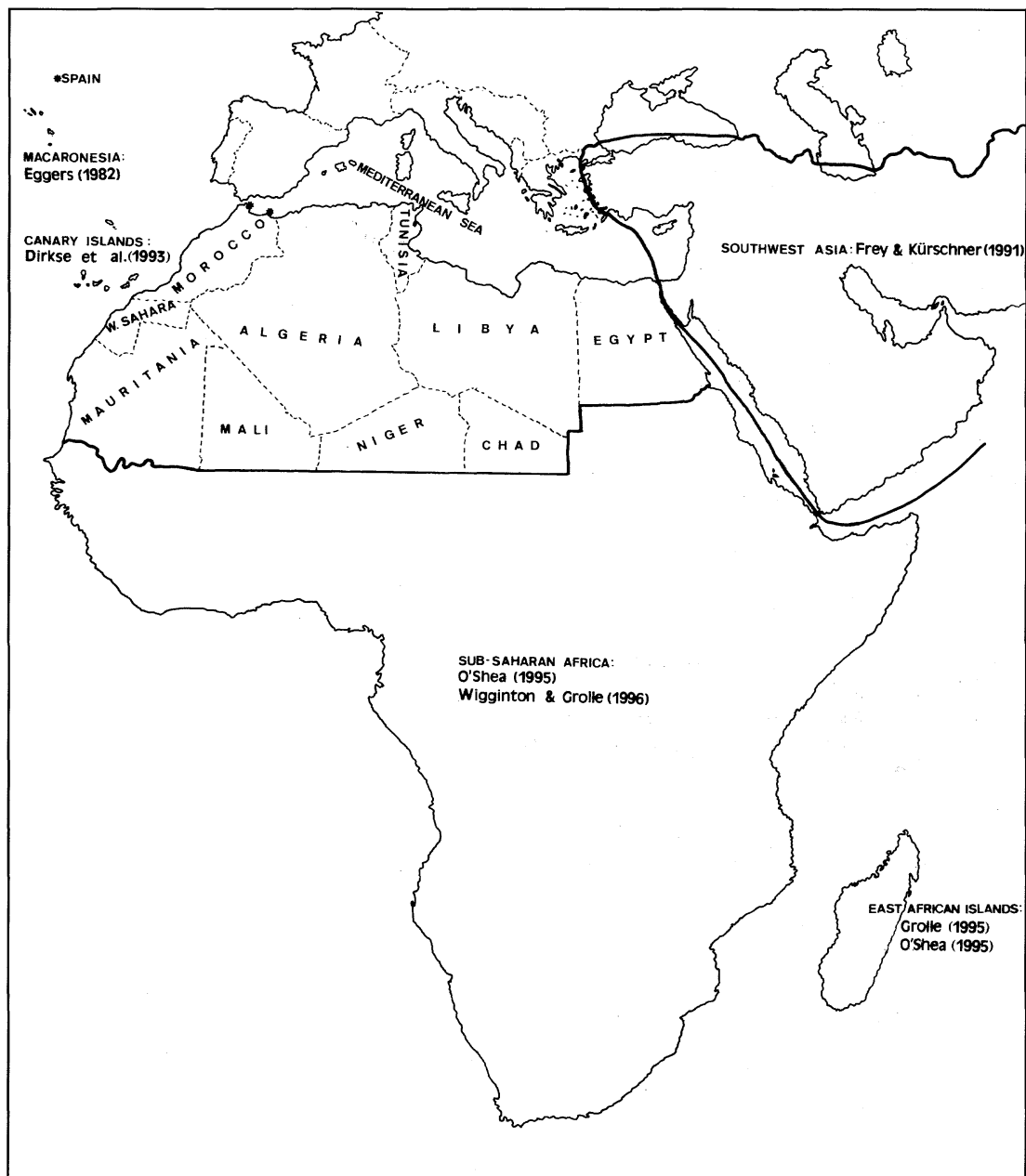


Figure 1. Map of study area with indications of the border existing checklists in Africa and Asia.

source of information does not provide sufficient detail about the country. This is the case, for example, in Jelenc (1955a, 1967), where localities are not assigned to countries, but only to sectors according to a French botanical sectorization of North Africa. Although the authors have tried to assign each locality to a country, some mistakes may have been made, because in many cases obsolete place names are given in the literature. In many instances, too, authors have made translations from Arabic to a European language and it is sometimes difficult to know exactly which village or place is being referred to. The authors have included subsequent references when a new locality is given for a taxon.

It has been assumed that if one plant is synonymized with another, then its distribution data can also be transferred. When names from the source lists have been synonymized, the original names under which taxa were published are included as synonyms and their distribution data are shown under the current name. All synonyms from source references have been listed in alphabetical order with the rest of the names and not placed under the valid taxa to which they apply. No distinction has been made between nomenclatural and taxonomic synonyms.

A number of taxa have been found that do not appear in Wijk *et al.* (1959-1969), Crosby, Magill & Bauer (1992), Crosby & Magill (1994, 1997) or *Index Hepaticarum* (Bonner, 1963, 1976; Bischler, 1977; Geissler & Bischler, 1985, 1987, 1989, 1990). The status of such taxa is not always clear (although they are usually *nomina nuda*) and they tend to get omitted from taxonomic revisions. In

these cases, attempts were made to find the original publications and, if found, the references are included in the list.

There are a number of *nomina nuda* in the checklist that also need a change of name, but these must first be studied by taxonomists. Since in this work no taxonomic studies have been made, they have been included in the list simply because they figure in the original publication. Most of them are also treated as *nomina nuda* by Index Muscorum or Index Hepaticarum.

The authors are aware that mistakes will have been made in manipulation of the data and they would be grateful if readers could inform them of any errors.

NEW COMBINATIONS

Some new combinations appear to be necessary arising from this checklist, as usually occurs in this kind of compilation (Frey & Kürschner, 1991; O'Shea, 1995). A number of taxa require to be transferred to different genera or species. Because type material of these taxa was not studied, they are listed in the checklist under their illegitimate names, but with their probable correct position indicated. They are listed in Table 1

CHECKLIST

The checklist is in alphabetical list of taxon names, with currently accepted names shown in bold italic type. The synonyms (taxonomical and nomenclatural) which appear in the reference sources are written in italic type, together

Table 1. A list of illegitimate taxa in the North African flora.

<i>Barbula acuta</i> (Brid.) Brid. fo. <i>viridis</i> (Bruch, Schimp. & W.Gümbel) Podp.
<i>Barbula commutata</i> Jur. var. <i>erosa</i> Corb.
<i>Barbula ehrenbergii</i> (Lorentz) M.Fleisch. var. <i>algeriae</i> (Müll.Hal.) Venturi & Bott.
<i>Barbula ehrenbergii</i> (Lorentz) M.Fleisch. var. <i>immersa</i> Trab. ex Jelenc
<i>Barbula ehrenbergii</i> (Lorentz) M.Fleisch. fo. <i>laxissima</i> P. de la Varde
<i>Barbula fallax</i> Hedw. fo. <i>brevicaulis</i> (Schwägr.) Podp.
<i>Campylium polygamum</i> (Bruch, Schimp. & W.Gümbel) C.E.O.Jensen var. <i>minus</i> (Schimp.) G.Roth
<i>Entosthodon curvisetus</i> (Schwägr.) Müll.Hal. var. <i>xanthocarpus</i> (P. de la Varde) Jelenc
<i>Entosthodon ericetorum</i> (De Not.) Müll.Hal. fo. <i>elata</i> Besch.
<i>Funaria dentata</i> Crome var. <i>longifolia</i> Jelenc <i>nom. nud.</i>
<i>Funaria dentata</i> Crome var. <i>patula</i> (Bruch, Schimp. & W.Gümbel) Jelenc
<i>Grimmia commutata</i> Huebener fo. <i>subepilosa</i> Braun-Blanq.
<i>Hymenostomum subrostellatum</i> Schimp. ex Besch.
<i>Hymenostomum tortile</i> (Schwägr.) Bruch, Schimp. & W.Gümbel var. <i>tunetana</i> Besch.
<i>Mniobryum carneum</i> (F.Weber & D.Mohr) Limpr. fo. <i>integrifolia</i> P. de la Varde
<i>Mnium punctatum</i> Hedw. fo. <i>brevinervium</i> Jelenc
<i>Mnium undulatum</i> Hedw. var. <i>kabylicum</i> Trab. in Jelenc <i>nom. inv. descr. gall.</i>
<i>Oxyrhynchium swartzii</i> (Turn.) Warnst. var. <i>vulgare</i> (Boulay) Jelenc
<i>Pellia fabbroniana</i> Raddi fo. <i>undulata</i> Jelenc <i>nom. inval.</i>
<i>Platyhypnidium rusciforme</i> M.Fleisch. var. <i>longifolium</i> Trab. in Jelenc <i>nom. inval. descr. gall.</i>
<i>Platyhypnidium rusciforme</i> M.Fleisch. fo. <i>tophacea</i> Besch.
<i>Riccia bischoffii</i> Huebener fo. <i>armata</i> Trab. <i>nom. inval.</i>
<i>Thamnum alopecurum</i> (Hedw.) Bruch, Schimp. & W.Gümbel ssp. <i>mediterraneum</i> Bott.
<i>Thamnum alopecurum</i> (Hedw.) Bruch, Schimp. & W.Gümbel var. <i>decepiens</i> Corb.
<i>Thamnum alopecurum</i> (Hedw.) Bruch, Schimp. & W.Gümbel fo. <i>torrentium</i> Thér.
<i>Weissia wimmeriana</i> (Sendtn.) Bruch, Schimp. & W.Gümbel var. <i>pallescens</i> (Besch.) Bott.

with the currently accepted name. The taxa whose presence in North Africa is doubtful are intercalated in alphabetical order and are commented up on.

As far as possible, we have given the correct nomenclature according to current taxonomic standards. Accepted names are mostly based on Casares-Gil (1919), Müller (1954-1957), Grolle (1976, 1983), Düll (1983), Smith (1990), Aleffi & Schumacker (1995) and Wigginton & Grolle (1996), for liverworts and hornworts, and Corley *et al.* (1981) and Corley & Crundwell (1991) for mosses with some exceptions, such as the Pottiaceae, where Zander (1993) is followed except for *Aloina* Kindb., *Phascum* Hedw. and *Pottia* (Rchb.) Fühnr., in which the classical nomenclature of Corley *et al.* (1981) is retained. For taxa not cited in the above works, Wijk *et al.* (1959-1969), Bonner (1963, 1976), Bischler (1977), Geissler & Bischler (1985, 1987, 1989, 1990), Crosby *et al.* (1992) and Crosby & Magill (1994, 1997) were followed. When another taxonomical paper is used, the citation is given in the text. The authors of plant names are abbreviated according to Brummitt & Powell (1992). Taxa that do not appear in any of the above mentioned works are indicated by the symbol (*).

Each record is supported by the literature references for each country from which it is reported. The countries are abbreviated according to Hollis & Brummitt (1992), in Table 2.

Country abbreviations are listed for each taxon in alphabetic order of the country name. The numbers in brackets after each country are the literature references, which are translated to 'author + year' in the References section.

On the basis of this catalogue a total number of 882 taxa is reported for the area, of which 651 are species. This includes 5 hornworts (4 species), 171 liverworts (153 species), and 706 mosses (495 species). Therefore a large number of infraspecific taxa appear in this checklist. Most of them need to be studied because they were described in old papers related to Northern Africa and presumably are at present not widely recognized. The highest species diversity is found in Algeria (648 taxa), followed by Morocco (594 taxa), Tunisia (336 taxa), Egypt (156 taxa), Libya (138 taxa), Chad (88 taxa), Spanish territories in North

Africa (58 taxa), Mauritania (5 taxa), Mali (4 taxa), and Niger (4 taxa). No bryophytes have been reported from Western Sahara.

MOSSES

- Acaulon muticum* (Hedw.) Müll.Hal. ALG(1, 38, 55, 67), MOR(1, 55).
Acaulon muticum (Hedw.) Müll.Hal. var. *minus* (Hook. & Taylor) Bruch, Schimp. & W.Gümbel = *Acaulon muticum* (Hedw.) Müll.Hal.
Acaulon triquetrum (Spruce) Müll.Hal. ALG(1, 55), LBY(111, 119), MOR(1), TUN(1).
Acaulon triquetrum (Spruce) Müll.Hal. var. *desertorum* (Besch.) Jelenc TUN(1).
Aloina aloides (Schultz) Kindb. ALG(1, 38, 55, 68, 118, 122, 129), MOR(1, 129), SPA(55), TUN(1, 55, 118, 129).
Aloina ambigua (Bruch & Schimp.) Limpr. ALG(1, 2, 8, 38, 68, 118, 129), EGY(31, 129), LBY(8, 91, 95, 114, 115, 121, 129), MOR(1, 38, 73, 118, 129), SPA(1), TUN(1, 8, 118, 126, 129).
Aloina bifrons (De Not.) Delgad. EGY(31, 118), LBY(95, 119), MOR(129), TUN(126, 129).
Aloina brevisrostris (Hook. & Grev.) Kindb. ALG(129), MOR(75), TUN(129).
Aloina ericaefolia (Lindb.) Kindb. = *Aloina ambigua* (Bruch & Schimp.) Limpr.
Aloina rigida (Hedw.) Limpr. ALG(1, 129), CHA(101, 106), EGY(129), LBY(91, 95, 111, 115, 119), MOR(1, 38, 73, 129), TUN(1, 129).
Aloina rigida (Hedw.) Limpr. var. *ambigua* (Bruch & Schimp.) E.J.Craig = *Aloina ambigua* (Bruch & Schimp.) Limpr.
Aloina rigida (Hedw.) Limpr. var. *pilifera* (De Not.) Limpr. = *Aloina bifrons* (De Not.) Delgad.
Aloina stellata Kindb. = *Aloina rigida* (Hedw.) Limpr.
Aloina stellata Kindb. var. *pilifera* (Bruch, Schimp. & W.Gümbel) Schiffl. = *Aloina bifrons* (De Not.) Delgad.
Amblystegium burnatii J.J.Amann = *Eurhynchium pumilum* (Wilson) Schimp. (Ochyra, 1995)
Amblystegium compactum (Müll.Hal.) Austin = *Conardia compacta* (Müll.Hal.) H.Rob.
Amblystegium filicinum (Hedw.) De Not. var. *trichodes* (Brid.) Molk. = *Cratoneuron filicinum* (Hedw.) Spruce fo. *trichodes* (Brid.) Mönk.
Amblystegium fluviatile (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1, 38).
Amblystegium irriguum (Hook. & Wilson) Bruch, Schimp. & W.Gümbel = *Amblystegium tenax* (Hedw.) C.E.O.Jensen
Amblystegium riparium (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), EGY(23), MOR(1, 38), TUN(71).
Amblystegium serpens (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), TUN(1).

Table 2. List of abbreviations for North African countries.

Country	Abbreviation
Algeria	ALG
Chad	CHA
Egypt (excluding Sinai Peninsula)	EGY
Libya	LBY
Mali	MLI
Morocco	MOR
Mauritania	MTN
Niger	NGR
Spanish territories in North Africa	SPA
Tunisia	TUN
Western Sahara	WSA

- Amblystegium tenax* (Hedw.) C.E.O.Jensen ALG(1, 38), MOR(1, 73).
- Amblystegium varium* (Hedw.) Lindb. ALG(1), EGY(31), MOR(1).
- Amblystegium varium* (Hedw.) Lindb. var. *oligorhizon* (Bruch, Schimp. & W.Gümbel) Lindb. ALG(1).
- Amblystegium varium* (Hedw.) Lindb. fo. *oligorhizon* Bruch, Schimp. & W.Gümbel (*) = *Amblystegium varium* (Hedw.) Lindb. var. *oligorhizon* (Bruch, Schimp. & W.Gümbel) Lindb.
- Amphidium lapponicum* (Hedw.) Schimp.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Anacolia webbii* (Mont.) Schimp. ALG(1), MOR(1, 70, 124).
- Anisothecium howei* (Hedw.) Mitt. = *Dicranella howei* Renauld & Cardot
- Anisothecium rubrum* (Huds.) Lindb. = *Dicranella varia* (Hedw.) Schimp.
- Anisothecium rubrum* (Huds.) Lindb. var. *tenuifolium* (Bruch, Schimp. & W.Gümbel) Casares-Gil = *Dicranella howei* Renauld & Cardot
- Anoetangium aestivum* (Hedw.) Mitt. MOR(1).
- Anoetangium compactum* Schwägr. = *Anoetangium aestivum* (Hedw.) Mitt.
- Anomobryum filiforme* (Dicks.) Husn. = *Anomobryum julaceum* (P.Gaertn., B.Mey. & Schreb.) Schimp.
- Anomobryum julaceum* (P.Gaertn., B.Mey. & Schreb.) Schimp. ALG(1), MOR(75).
- Anomobryum juliforme* Solms = *Anomobryum julaceum* (P.Gaertn., B.Mey. & Schreb.) Schimp.
- Anomodon viticulosus* (Hedw.) Hook. & Taylor ALG(1).
- Antitrichia californica* Sull. ALG(1, 38), MOR(1, 38, 67, 73).
- Antitrichia curtispindula* (Hedw.) Brid. ALG(1).
- Antitrichia hispanica* (Bruch, Schimp. & W.Gümbel) Dalla Torre & Sarnth. = *Antitrichia californica* Sull.
- Archidium alternifolium* (Hedw.) Schimp. ALG(1, 59), MOR(1, 55, 73), TUN(1, 8, 38, 67).
- Archidium durieuanum* Schimp. in A.Jaeger = *Archidium alternifolium* (Hedw.) Schimp. (Snider, 1975)
- Archidium knitranum* J.J.Amann = *Archidium alternifolium* (Hedw.) Schimp. (Snider, 1975)
- Archidium phascoides* Brid. = *Archidium alternifolium* (Hedw.) Schimp.
- Aschisma carniolicum* (F.Weber & D.Mohr) Lindb. ALG(1), MOR(1, 55).
- Aschisma carniolicum* (F.Weber & D.Mohr) Lindb. var. *speciosum* Limpr. ALG(1), MOR(122).
- Astomum crispum* (Hedw.) Hampe = *Weissia longifolia* Mitt.
- Astomum crispum* (Hedw.) Hampe var. *minus* Jelenc ALG(1).
- Astomum levieri* Limpr. = *Weissia levieri* (Limpr.) Kindb.
- Astomum multicapsulare* (Sm.) Bruch, Schimp. & W.Gümbel = *Weissia multicapsularis* (Sm.) Mitt.
- Atrichum undulatum* (Hedw.) P. Beauv. ALG(1), TUN(1).
- Aulacomnium androgynum* (Hedw.) Schwägr. ALG(1), MOR(1).
- Aulacomnium palustre* (Hedw.) Schwägr. ALG(1), MOR(1, 38, 39, 57), TUN(19, 80).
- Aulacomnium palustre* (Hedw.) Schwägr. var. *djurdjurae* Trab. ex. Jelenc nom. inval. des. gall. tantum ALG(1).
- Barbula aaronis* (Lorentz) Hilp. = *Didymodon aaronis* (Lorentz) J.Guerra
- Barbula acuta* (Brid.) Brid. = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander
- Barbula acuta* (Brid.) Brid. fo. *viridis* (Bruch, Schimp. & W.Gümbel) Podp. ALG(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander.
- Barbula alexandrina* Lorentz = *Tortella nitida* (Lindb.) Broth.
- Barbula ambigua* Bruch & Schimp. = *Aloina ambigua* (Bruch & Schimp.) Limpr.
- Barbula commutata* Jur. = *Barbula convoluta* Hedw. subsp. *commutata* (Jur.) Boulay
- Barbula bolleana* (Müll.Hal.) Broth. ALG(1, 38), CHA(101, 107), EGY(23, 24, 25, 31), LBY(91), MOR(1, 38, 67), TUN(1).
- Barbula commutata* Jur. var. *erosa* Corb. MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Barbula convoluta* Hedw.
- Barbula convoluta* Hedw. ALG(1, 55), EGY(11, 31), LBY(111, 119, 121), MOR(1, 38, 55, 122), SPA(55), TUN(1).
- Barbula convoluta* Hedw. subsp. *commutata* (Jur.) Boulay MOR(1).
- Barbula crocea* (Brid.) F.Web. & D.Mohr ALG(1).
- Barbula cylindrica* (Taylor) Schimp. = *Didymodon vinealis* (Brid.) R.H.Zander
- Barbula ehrenbergii* (Lorentz) M.Fleisch. = *Barbula bolleana* (Müll.Hal.) Broth. (Frahm *et al.*, 1996)
- Barbula ehrenbergii* (Lorentz) M.Fleisch. var. *algeriae* (Müll.Hal.) Venturi & Bott. ALG(1, 38), CHA(1), MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Barbula bolleana* (Müll.Hal.) Broth.
- Barbula ehrenbergii* (Lorentz) M.Fleisch. var. *immersa* Trab. ex Jelenc ALG(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Barbula bolleana* (Müll.Hal.) Broth.
- Barbula ehrenbergii* (Lorentz) M.Fleisch. fo. *laxissima* P. de la Varde (*) MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Barbula bolleana* (Müll.Hal.) Broth.
- Barbula elata* Durieu & Mont. ex Müll.Hal. ALG(1).

- Barbula enderesii*** Garov. ALG(1).
Barbula fallax Hedw. = *Didymodon fallax* (Hedw.) R.H.Zander
Barbula fallax Hedw. fo. *brevicaulis* (Schwägr.) Podp. LBY(115).
 A new combination seems to be necessary for this taxon. If valid, it should be related to *Didymodon fallax* (Hedw.) R.H.Zander.
Barbula fallax Hedw. var. *brevifolia* (Dicks. ex With.) Schultz = *Didymodon fallax* (Hedw.) R.H.Zander var. *brevifolius* (Dicks. ex With.) Ochyra
Barbula flavipes Bruch & Schimp. = *Barbula enderesii* Garov.
Babula fiorii (Venturi) G.Roth = *Tortula revolvens* (Schimp.) G.Roth var. *obtusata* Reim.
Barbula gattefossei P. de la Varde MOR(1).
Barbula gracilis Schwägr. = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander
Barbula hornschuchiana Schultz = *Pseudocrossidium hornschuchianum* (Schultz) R.H.Zander
Barbula indica (Hook.) Spreng. EGY(25, 31, 60, 90).
Barbula marginata Bruch, Schimp. & W.Gümbel = *Tortula marginata* (Bruch & Schimp.) Spruce
Barbula membranifolia (Hook.) Schultz = *Crossidium squamiferum* (Viv.) Jur.
Barbula mucronata Brid. = *Dialytrichia mucronata* (Brid.) Broth.
Barbula mucronata Brid. var. *conferta* Corb. = *Dialytrichia mucronata* (Brid.) Broth. var. *conferta* (Corb.) Corb.
Barbula muralis (Hedw.) Crom. = *Tortula muralis* Hedw.
Barbula muralis (Hedw.) Crom. var. *alexandrina* (Lorentz) A.Jaeger = *Tortella nitida* (Lindb.) Broth.
Barbula muralis (Hedw.) Crom. var. *obovata* Schimp. (*) EGY(90).
 This taxon does not appear in Index Muscorum or any other Index or nomenclatural work. It is supposed that the author refers to *Barbula muralis* Hedw. var. *obcordata* Schimp., which at the moment is a synonym of *Tortula muralis* Hedw. var. *obcordata* (Schimp.) Limpr.
Barbula nitida (Lindb.) Jur. = *Tortella nitida* (Lindb.) Broth.
Barbula paludosa F.Weber & D.Mohr = *Barbula crocea* (Brid.) F.Weber & D.Mohr
Barbula revoluta Brid. = *Pseudocrossidium revolutum* (Brid.) R.H.Zander
Barbula revolvens Schimp. = *Tortula revolvens* (Schimp.) G.Roth
Barbula rigida Hedw. = *Aloina rigida* (Hedw.) Limpr.
Barbula rigidula (Hedw.) Mitt. = *Didymodon rigidulus* Hedw.
Barbula squamigera Viv. = *Crossidium squamiferum* (Viv.) Jur.
Barbula tectorum Müll.Hal. = *Didymodon tectorum* (Müll.Hal.) K.Saito
Barbula tophacea (Brid.) Mitt. = *Didymodon tophaceus* (Brid.) Lisa
Barbula tophacea (Brid.) Mitt. fo. *lingulata* (Boulay) Mönk. = *Didymodon tophaceus* (Brid.) Lisa fo. *lingulatus* (Boulay) Mönk.
Barbula trabutii Jelenc nom. inval. descr. gall. ALG(1).
Barbula unguiculata Hedw. ALG(1, 55), EGY(23, 25, 31), LBY(91, 95, 119, 121), MOR(1, 55), TUN(1, 8, 55, 71).
Barbula unguiculata Hedw. var. *cuspidata* (Schultz) Brid. = *Barbula unguiculata* Hedw. fo. *cuspidata* (Schultz) Mönk.
Barbula unguiculata Hedw. var. *obtusifolia* Bruch, Schimp. & W.Gümbel = *Barbula unguiculata* Hedw. fo. *obtusifolia* (Bruch, Schimp. & W.Gümbel) Mönk.
Barbula unguiculata Hedw. fo. *cuspidata* (Schultz) Mönk. ALG(1).
Barbula unguiculata Hedw. fo. *obtusifolia* (Bruch, Schimp. & W.Gümbel) Mönk. EGY(24, 25), MOR(1).
Barbula vinealis Brid. = *Didymodon vinealis* (Brid.) R.H.Zander
Barbula vinealis Brid. var. *cylindrica* (Taylor) Podp. = *Didymodon vinealis* (Brid.) R.H.Zander
Barbula vinealis Brid. var. *flaccida* Bruch, Schimp. & W.Gümbel = *Didymodon vinealis* (Brid.) R.H.Zander
Bartramia ithyphylla Brid. MOR(1).
Bartramia nilotica Müll.Hal. nom. nud. EGY(90).
Bartramia pomiformis Hedw. ALG(1, 2, 38), MOR(73).
Bartramia pomiformis Hedw. var. *crispa* (Brid.) Bruch, Schimp. & W. Gümbel = *Bartramia pomiformis* Hedw. var. *elongata* Turner
Bartramia pomiformis Hedw. var. *elongata* Turner ALG(1).
Bartramia stricta Brid. ALG(1, 2, 38, 55), MOR(1, 38, 67, 135), SPA(1), TUN(1).
Brachymenium cf. *angustirete* Ochi EGY(25).
Brachymenium borgenianum Hampe CHA(100, 101).
Brachymenium borgenianum Hampe var. *calva* Schimp. CHA(101).
Brachymenium commutatum (Müll.Hal.) A.Jaeger MOR(1), TUN(1).
Brachymenium commutatum (Müll.Hal.) A.Jaeger var. *attenuatum* Thér. & Trab. ALG(1, 26), MOR(1).
Brachymenium exile (Dozy & Molk.) Bosch & Lacroix ALG(52), EGY(52), NGR(52).
Brachymenium cf. *longicolle* Thér. EGY(25).
Brachythecium albicans (Hedw.) Bruch, Schimper & W.Gümbel ALG(1).
Brachythecium campestre (Müll.Hal.) Bruch, Schimper & W.Gümbel ALG(1).
Brachythecium glareosum (Spruce) Bruch, Schimper & W.Gümbel MOR(1).
Brachythecium laetum (Brid.) Bruch, Schimper & W.Gümbel MOR(1).
Brachythecium ligusticum De Not. = *Brachythecium salebrosum* (F.Weber & D.Mohr) Bruch, Schimper & W.Gümbel
Brachythecium mildeanum (Schimp.) Schimp. ex Milde
 The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

- Brachythecium olympicum* Jur. MOR(1).
- Brachythecium oxycladum* (Brid.) A.Jaeger = *Brachythecium laetum* (Brid.) Bruch, Schimp. & W.Gümbel (Robinson & Ignatov, 1997)
- Brachythecium plumosum* (Hedw.) Bruch, Schimp. & W.Gümbel
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Brachythecium populeum* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), LBY(93, 119), MOR(1, 73).
- Brachythecium rivulare* Bruch, Schimp. & W.Gümbel ALG(1), EGY(25), MOR(1, 36, 38, 73).
- Brachythecium rutabulum* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1, 36, 67), TUN(1).
- Brachythecium salebrosum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel ALG(1), LBY(93, 119), MOR(1, 73).
- Brachythecium salicinum* Bruch, Schimp. & W.Gümbel = *Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *salicinum* (Bruch, Schimp. & W.Gümbel) Mönk.
- Brachythecium salicinum* Bruch, Schimp. & W.Gümbel var. *meridionale* (Schimp.) Jelenc = *Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *salicinum* (Bruch, Schimp. & W.Gümbel) Mönk.
- Brachythecium trachypodium* (Brid.) Bruch, Schimp. & W.Gümbel ALG(1).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1, 8, 38, 55), CHA(100), MOR(1, 73).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *condensatum* Bruch, Schimp. & W.Gümbel = *Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *condensatum* (Bruch, Schimp. & W.Gümbel) Podp.
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *intricatum* (Hedw.) Bruch, Schimp. & W.Gümbel = *Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *intricatum* (Hedw.) C.E.O.Jensen
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *salicinum* (Bruch, Schimp. & W.Gümbel) Mönk. ALG(1), MOR(1), TUN(1).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *venustum* (De Not.) W.Archer bis. ALG(1, 38), MOR(38).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *condensatum* (Bruch, Schimp. & W.Gümbel) Podp. ALG(1).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *intricatum* (Hedw.) C.E.O.Jensen ALG(1).
- Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *meridionale* (Schimp.) Podp. ALG(1).
- Brachythecium venustum* De Not. = *Brachythecium velutinum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *venustum* (De Not.) W.Archer bis
- Bryoerythrophyllum recurvirostrum* (Hedw.) P.C.Chen ALG(1, 8), CHA(101), MOR(1), TUN(1).
- Bryum affine* Lindb. & Arnold = *Bryum creberrimum* Taylor
- Bryum algovicum* Sendtn. ex Müll.Hal. ALG(1).
- Bryum alpinum* With. ALG(1), MOR(1, 36, 39, 57, 73).
- Bryum alpinum* With. var. *gemmiparum* (De Not.) Kindb. = *Bryum gemmiparum* De Not.
- Bryum alpinum* With. var. *meridionale* Schimp. ALG(1).
- Bryum alpinum* With. var. *viride* Husn. EGY(11, 31), MOR(1), TUN(1).
- Bryum alpinum* With. fo. *flagellifera* Corb. Exploration Scientifique du Maroc, 1er fasc.: 134. 1913 (*) MOR(1).
- Bryum* cf. *apiculatum* Schwägr. EGY(24, 25).
- Bryum argenteum* Hedw. ALG(1, 2, 38), CHA(100, 101), EGY(23, 31), LBY(119), MOR(1, 38, 73, 138), SPA(55), TUN(1).
- Bryum argenteum* Hedw. var. *lanatum* (P. Beauv.) Bruch, Schimp. & W.Gümbel ALG(1), EGY(31), MOR(1).
- Bryum aschersonii* Müll.Hal. = *Bryum capillare* Hedw. (Ochi, 1972).
- Bryum atlanticum* Solms = *Bryum alpinum* With. var. *meridionale* Schimp.
- Bryum atropurpureum* Bruch, Schimp. & W.Gümbel = *Bryum bicolor* Dicks.
- Bryum atropurpureum* Wahlenb. = *Pohlia atropurpurea* (Wahlenb.) Lindb.
- Bryum atrovirens* Brid. EGY(31).
- Bryum badium* (Brid.) Schimp. = *Bryum caespiticium* Hedw. var. *badium* Brid.
- Bryum barnesii* J.B.Wood ex Schimp.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Bryum bicolor* Dicks. ALG(1, 2, 8, 38, 53), CHA(1, 100, 101, 107), EGY(25, 31), LBY(91, 93, 95, 111, 114, 115, 119), MOR(1, 38, 55, 67, 73, 122, 138), SPA(1, 55), TUN(1, 8).
- Bryum bicolor* Dicks. var. *denticulatum* (Besch.) Jelenc ALG(1).
- Bryum bicolor* Dicks. var. *dolioloides* (Solms) Warnst. ALG(38, 67), LBY(115), MOR(38, 67), TUN(38).
- Bryum bicolor* Dicks. var. *macrothecium* (Besch.) Jelenc ALG(1).
- Bryum bicolor* Dicks. var. *tenellum* (Besch.) Jelenc ALG(1).
- Bryum bicolor* Dicks. var. *tuneticum* (Besch.) Jelenc TUN(1).
- Bryum caespiticium* Hedw. ALG(1, 38, 68), EGY(31), MOR(1, 38), TUN(1).
- Bryum caespiticium* Hedw. ssp. *comense* (Schimp.) J.J.Amann = *Bryum comense* Schimp.

- Bryum caespiticium* Hedw. var. *badium* Brid. ALG(1, 38), EGY(31).
Bryum caespiticium Hedw. var. *comense* (Schimp.) Husn. = *Bryum comense* Schimp.
Bryum caespiticium Hedw. var. *gracilescens* Bruch, Schimp. & W.Gümbel = *Bryum caespiticium* Hedw. var. *badium* Brid.
Bryum caespiticium Hedw. var. *imbricatum* Bruch, Schimp. & W.Gümbel = *Bryum kunzei* Hornsch.
Bryum caespiticium Hedw. var. *kunzei* (Hoppe & Hornsch.) Braithw. = *Bryum kunzei* Hornsch.
Bryum canariense Brid. ALG(1, 52), LBY(119), MOR(1, 75), TUN(1).
Bryum capillare Hedw. ALG(1, 2, 38, 52, 55, 68), EGY(52), LBY(52, 60), MOR(1, 36, 38, 73), TUN(1).
Bryum capillare Hedw. var. *ferchelii* (Brid.) Bruch, Schimp. & W.Gümbel ALG(1, 38, 67), MOR(1, 75).
Bryum capillare Hedw. var. *flaccidum* (Brid.) Bruch, Schimp. & W.Gümbel = *Bryum subelegans* Kindb.
Bryum capillare Hedw. var. *meridionale* Schimp. LBY(93, 119).
Bryum capillare Hedw. var. *platyloma* (Schwägr.) Schimp. = *Bryum capillare* Hedw. var. *rufifolium* (Dixon) Podp. (Syed, 1973)
Bryum capillare Hedw. var. *rosulatum* Mitt. = *Bryum elegans* Nees ex Brid.
Bryum capillare Hedw. var. *rufifolium* (Dixon) Podp. ALG(1), LBY(91, 119), MOR(1).
Bryum cellulare Hook. EGY(31), NGR(1, 104).
Bryum cirratum Hoppe & Hornsch. = *Bryum pallescens* Schleich. ex Schwägr.
Bryum comense Schimp. ALG(1), EGY(23, 24, 31).
Bryum coronatum Schwägr. CHA(52).
Bryum creberrimum Taylor MOR(1).
Bryum cyclophyllum (Schwägr.) Bruch & Schimp. MOR(1).
Bryum donianum Grev. ALG(1, 38, 52), LBY(93, 119), MOR(1, 75), SPA(1), TUN(1, 38).
Bryum dunense A.J.E.Sm. & H.Whitehouse ALG(55), TUN(55).
Bryum duriaei Schimp. ex Besch. = *Bryum radiculosum* Brid.
Bryum duvalii Voit in Sturm = *Bryum weigelii* Spreng.
Bryum duvalioides (Itzigs.) Warnst. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *duvalioides* (Itzigs.) Warnst.
Bryum elegans Nees ex Brid. ALG(1), MOR(1, 36).
Bryum elegans Nees ex Brid. var. *ferchelii* (Brid.) Breidl. = *Bryum capillare* Hedw. var. *ferchelii* (Brid.) Bruch, Schimp. & W.Gümbel
Bryum erythrocarpum Schwägr. = *Bryum erythrocarpum* Schwägr. complex
Bryum erythrocarpum Schwägr. complex ALG(1, 38), EGY(31, 90), MOR(1, 38, 68), TUN(1).
Bryum erythrocarpum Schwägr. var. *radiculosum* (Brid.) Bruch, Schimp. & W.Gümbel = *Bryum radiculosum* Brid.
Bryum fallax Milde = *Bryum pallens* Sw. var. *alpinum* (Bruch, Schimp. & W.Gümbel) Podp.
Bryum funckii Schwägr. EGY(31), MOR(75).
Bryum cf. *gedeanum* Bosch & Sande Lac. EGY(24, 25).
Bryum gemmilucens R.Wilczek & Demaret ALG(55), MOR(55, 122).
Bryum gemmiparum De Not. ALG(1, 2, 38, 52), EGY(31), MOR(1, 36, 73), SPA(1).
Bryum gemmiparum De Not. var. *ahhagarensis* Thér. & Trab. ALG(1), CHA(100).
Bryum gemmiparum De Not. var. *sinaica* Geh. in Kneuck. = *Bryum gemmiparum* De Not. fo. *sinaica* (Geh. in Kneuck.) Podp.
Bryum gemmiparum De Not. fo. *sinaica* (Geh. in Kneuck.) Podp. EGY(31).
Bryum glauculum Müll.Hal. ex Sickenb., Mémoires de l'Institute Égyptien, 4: 317. 1901 *nom. nud.* (*) EGY(90).
Bryum inclinatum (Brid.) Blandow. ALG(1), MOR(1).
Bryum intermedium (Brid.) Blandow. MOR(1).
Bryum kabylicum Trab. in Jelenc, *nom. inval. descr. gall. tantum* ALG(1).
Bryum korbianum Müll.Hal. = *Pohlia korbiana* (Müll.-Hal.) Wijk & Margad.
Bryum kunzei Hornsch. ALG(38), EGY(31), LBY(121), MOR(73).
Bryum mairei Thér. & Trab. *hom. illeg.* MOR(1).
Bryum mildeanum Jur. ALG(1).
Bryum murale Wilson ex Hunt. = *Bryum radiculosum* Brid.
Bryum murorum (Schimp.) Berk. = *Bryum radiculosum* Brid.
Bryum obconicum Hornsch. = *Bryum pallescens* Schleich. ex Schwägr.
Bryum pallens Sw. ALG(1, 38, 68), MOR(1, 73).
Bryum pallens Sw. var. *alpinum* (Bruch, Schimp. & W.Gümbel) Podp. ALG(1).
Bryum pallescens Schleich. ex Schwägr. ALG(1, 38), LBY(119, 121), MOR(1).
Bryum pallescens Schleich. ex Schwägr. var. *polygamum* Corb. = *Bryum pallescens* Schleich. ex Schwägr. fo. *polygamum* (Corb.) Podp.
Bryum pallescens Schleich. ex Schwägr. fo. *polygamum* (Corb.) Podp. MOR(1).
Bryum pendulum (Hornsch.) Schimp. = *Bryum algovicum* Sendtn. ex Müll.Hal.
Bryum perdelicatum Broth. in Har. *nom. nud.* = *Bryum cellulare* Hook.
Bryum pseudotriquetrum (Hedw.) P.Gaertn., B.Mey. & Schreb. ALG(1, 38), MOR(1, 36, 38, 39, 57, 67, 73), TUN(1).
Bryum pseudotriquetrum (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *algeriense* Corb. ALG(1).
Bryum pseudotriquetrum (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *compactum* Bruch, Schimp. & W.Gümbel TUN(38, 67).
Bryum pseudotriquetrum (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *duvalioides* (Itzigs.) Warnst. ALG(38), MOR(1, 73).

- Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *gracilescens* Schimp. ALG(38, 67), MOR(1).
- Bryum radiculosum* Brid. ALG(1, 2, 8, 52), EGY(25, 31), LBY(91, 93, 95, 119), MOR(38, 67), TUN(1, 55).
- Bryum remelei* Müll.Hal. EGY(60, 90).
- Bryum rubens* Mitt. TUN(8).
- Bryum saharae* Dixon = *Bryum canariense* Brid.
- Bryum sauteri* Bruch, Schimp. & W.Gümbel EGY(128).
- Bryum schleicheri* Lam. & DC. ALG(1), CHA(100), MOR(1, 38, 67).
- The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Bryum schleicheri* Lam. & DC. var. *ahhaggarensis* Thér. ALG(1, 26), CHA(100).
- Bryum schleicheri* Lam. & DC. var. *ahhaggarensis* Thér. fo. *peracutifolia* Thér. (*) CHA(100).
- The combination of two infraspecific taxa does not appear in *Index Muscorum* or any other index or nomenclatural work.
- Bryum schleicheri* Lam. & DC. var. *latifolium* (Schwägr.) Schimp. ALG(1), MOR(1, 75).
- Bryum schleicheri* Lam. & DC. fo. *peracutifolium* Thér. in Maire ALG(1).
- Bryum schleicheri* Lam. & DC. fo. *stenophyllum* Thér. in Maire ALG(1).
- Bryum subelegans* Kindb. ALG(8, 38), MOR(1), SPA(1).
- Bryum subrotundum* Brid. ALG(1).
- Bryum syriacum* Lorentz var. *humile* Schiffn. EGY(31).
- Bryum tophaceum* Durieu & Mont. = *Bryum gemmiparum* De Not.
- Bryum torquescens* Bruch & Schimp. ALG(1, 2, 8, 38, 55, 120), EGY(31, 64, 120), LBY(115, 119, 121), MOR(1, 38, 67, 68, 120), TUN(1, 38, 120).
- Bryum torquescens* Bruch & Schimp. var. *gracile* Besch. = *Bryum capillare* Hedw.
- Bryum trabutii* Thér. ALG(1).
- Bryum turbinatum* (Hedw.) Turner ALG(1, 2, 38), MOR(1, 36, 38).
- Bryum turbinatum* (Hedw.) Turner var. *gracilifolium* Besch. = *Bryum turbinatum* (Hedw.) Turn. fo. *gracilifolium* (Besch.) Podp.
- Bryum turbinatum* (Hedw.) Turner var. *praelongum* Bruch, Schimp. & W.Gümbel = *Bryum schleicheri* Lam. & DC.
- Bryum turbinatum* (Hedw.) Turner fo. *gracilifolium* (Besch.) Podp. ALG(1).
- Bryum valparaisense* Thér. LBY(132).
- Bryum ventricosum* Dicks. ex Relhan = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb.
- Bryum ventricosum* Dicks. ex Relhan var. *algeriense* Corb. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *algeriense* Corb.
- Bryum ventricosum* Dicks. ex Relhan var. *compactum* (Bruch, Schimp. & W.Gümbel) Lindb. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *compactum* Bruch, Schimp. & W.Gümbel
- Bryum ventricosum* Dicks. ex Relhan var. *duvalioides* (Itzigs.) Glow. = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *duvalioides* (Itzigs.) Warnst.
- Bryum ventricosum* Dicks. ex Relhan var. *flaccidum* (Schimp.) Jelenc = *Bryum pseudotriquetrum* (Hedw.) P.Gaertn., B.Mey. & Schreb. var. *duvalioides* (Itzigs.) Warnst.
- Bryum weigeli* Spreng. MOR(75).
- Calliergionella cuspidata* (Hedw.) Loeske ALG(1), MOR(1, 39, 57), TUN(1).
- Camptothecium aureum* (Spruce) Bruch, Schimp. & W.Gümbel = *Homalothecium aureum* (Spruce) H.Rob.
- Camptothecium lutescens* (Hedw.) Bruch, Schimp. & W.Gümbel = *Homalothecium lutescens* (Hedw.) H.Rob.
- Campyliadelphus chrysophyllus* (Brid.) Kanda CHA(1, 101, 106).
- Campylium chrysophyllum* (Brid.) Lange = *Campyliadelphus chrysophyllus* (Brid.) Kanda (Hedenäs, 1997a)
- Campylium polygamum* (Bruch, Schimp. & W.Gümbel) C.E.O.Jensen = *Drepanocladus polygamus* (Bruch, Schimp. & W.Gümbel) Hedenäs (Hedenäs, 1997a)
- Campylium polygamum* (Bruch, Schimp. & W.Gümbel) C.E.O.Jensen var. *minus* (Schimp.) G.Roth MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Drepanocladus polygamus* (Bruch, Schimp. & W.Gümbel) Hedenäs.
- Campylium stellatum* (Hedw.) C.E.O.Jensen MOR(1).
- Campylopus brevipilus* Bruch, Schimp. & W.Gümbel ALG(1, 27), CHA(1, 99, 100, 101, 106, 107), TUN(71).
- Campylopus flexuosus* (Hedw.) Brid. ALG(1).
- Campylopus introflexus* (Hedw.) Brid. ALG(1), CHA(1, 100, 101, 106, 107), MOR(1), TUN(19).
- Campylopus pilifer* Brid. CHA(99).
- Campylopus polytrichoides* De Not. = *Campylopus pilifer* Brid.
- Campylostelium pitardii* (Corb.) E.Maier LBY(91, 95), TUN(1, 126).
- Campylostelium strictum* Solms ALG(1).
- Catharinea undulata* (Hedw.) F.Weber & D.Mohr = *Atrichum undulatum* (Hedw.) P. Beauv.
- Ceratodon cedricola* J.J.Amann = *Ceratodon conicus* (Hampe) Lindb.
- Ceratodon conicus* (Hampe) Lindb. MOR(1).
- Ceratodon corsicus* Bruch, Schimp. & W.Gümbel = *Ceratodon purpureus* (Hedw.) Brid. ssp. *stenocarpus* (Bruch, Schimp. & W.Gümbel) Dixon (Burley & Pritchard, 1990)

- Ceratodon purpureus* (Hedw.) Brid. ALG(1, 2, 38), CHA(99, 100), MOR(1, 73, 138), TUN(1).
- Ceratodon purpureus* (Hedw.) Brid. ssp. *stenocarpus* (Bruch, Schimp. & W.Gümbel) Dixon ALG(1), MOR(1), SPA(1).
- Cheilothela chloropus* (Brid.) Lindb. ALG(1), CHA(99, 100), LBY(93, 119), MOR(1), SPA(1), TUN(1).
- Chrysohypnum chrysophyllum* (Brid.) Loeske = *Campylia-delphus chrysophyllus* (Brid.) Kanda (Hedenäs, 1997a)
- Cinclidotus aquaticus* (Hedw.) Bruch & Schimp. ALG(1, 38, 68).
- Cinclidotus fontinaloides* (Hedw.) P. Beauv. ALG(1, 38), MOR(1, 36).
- Cinclidotus riparius* (Brid.) Arn. MOR(1).
- Cirriphyllum cirrosium* (Schwägr.) Grout
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Cirriphyllum crassinervium* (Wilson) Loeske & M.Fleisch. ALG(1, 38), TUN(19).
- Cirriphyllum piliferum* (Hedw.) Grout ALG(1), MOR(1).
- Conardia compacta* (Müll.Hal.) H.Rob. MOR(36).
- Coscinodon cribrosus* (Hedw.) Spruce ALG(1), MOR(1), SPA(1).
- Cratoneuron commutatum* (Hedw.) G.Roth = *Palustriella commutata* (Hedw.) Ochyra
- Cratoneuron decipiens* (De Not.) Loeske = *Palustriella decipiens* (De Not.) Ochyra
- Cratoneuron filicinum* (Hedw.) Spruce ALG(1, 38, 67), MOR(1, 36, 38).
- Cratoneuron filicinum* (Hedw.) Spruce. var. *crassinervium* (Renauld) Podp. = *Cratoneuron filicinum* (Hedw.) Spruce var. *fallax* (Brid.) G.Roth
- Cratoneuron filicinum* (Hedw.) Spruce var. *fallax* (Brid.) G.Roth ALG(1), MOR(1, 38).
- Cratoneuron filicinum* (Hedw.) Spruce fo. *trichodes* Mönk. MOR(73).
- Cratoneuron glaucum* G.Roth. = *Palustriella commutata* (Hedw.) Ochyra
- Cratoneuron glaucum* G.Roth. var. *falcatum* (Brid.) G.Roth. = *Palustriella falcata* (Brid.) Hedenäs (Hedenäs, 1992)
- Cratoneuron glaucum* G.Roth var. *sulcatum* (Lindb.) G.Roth = *Palustriella falcata* (Brid.) Hedenäs (Hedenäs, 1997b)
- Crossidium aberrans* Holz. & E.B.Bartram ALG(118, 136), MOR(50).
- Crossidium chloronotos* (Brid.) Limpr. = *Crossidium squamiferum* (Viv.) Jur.
- Delgadoillo (1975) stated that *C. chloronotos* is nomenclaturally a synonym of *C. squamiferum*, however taxonomically the name *C. chloronotos* has been applied to the European plants described as *C. crassinerve*. Because all the bryologists that have worked in North Africa were Europeans, the authors of this paper consider that the sense given to this taxon in North Africa papers has been *C. crassinerve*.
- Crossidium chloronotos* (Brid.) Limpr. var. *niveum* (Besch.) Jelenc = *Crossidium squamiferum* (Viv.) Jur.
- The authors of this paper consider that this taxon could also be related to *C. crassinerve* and not to *C. squamiferum*.
- Crossidium crassinerve* (De Not.) Jur. ALG(1, 38, 68, 118), CHA(102, 118), EGY(31), LBY(91, 95), MOR(1), TUN(1, 8)
- Crossidium griseum* (Jur.) Jur. = *Crossidium squamiferum* (Viv.) Jur.
- Crossidium laevipilum* Thér. & Trab. ALG(1), MOR(136), TUN(136).
- Crossidium squamiferum* (Viv.) Jur. ALG(1, 26, 38, 68, 118), CHA(101), EGY(98), LBY(91, 95, 110, 114, 115, 119), MOR(1, 38, 73, 118, 122), TUN(1, 126, 136).
- Crossidium squamiferum* (Viv.) Jur. var. *pottioideum* (De Not.) Mönk. ALG(118).
- Crossidium squamigerum* (Viv.) Jur. = *Crossidium squamiferum* (Viv.) Jur.
- Cryphaea arborea* (P.Beauv.) Lindb. = *Cryphaea heteromalla* (Hedw.) D.Mohr
- Cryphaea heteromalla* (Hedw.) D.Mohr ALG(1, 2, 38, 68).
- Cryphaea lamyana* (Mont.) Müll.Hal.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) and Smith (1978) it is found in North Africa.
- Ctenidium molluscum* (Hedw.) Mitt. ALG(1, 38), MOR(1).
- Ctenidium molluscum* (Hedw.) Mitt. var. *squarrosulum* (Boulay) G.Roth MOR(38, 67).
- Cynodontium bruntonii* (Sm.) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1).
- Desmatodon heimii* (Hedw.) Mitt.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Desmatodon latifolius* (Hedw.) Brid. = *Tortula euryphylla* R.H.Zander
- Dialytrichia mucronata* (Brid.) Broth. ALG(1), MOR(1, 38, 75), TUN(1).
- Dialytrichia mucronata* (Brid.) Broth. var. *conferta* (Corb.) Corb. MOR(1).
- Dichelyma falcatum* (Hedw.) Myrinin MOR(75).
- Dichodontium pellucidum* (Hedw.) Schimp. EGY(31).
- Dichodontium pellucidum* (Hedw.) Schimp. var. *fagimontanum* (Brid.) Schimp. = *Dichodontium pellucidum* (Hedw.) Schimp.
- Dicranella heteromalla* (Hedw.) Schimp. ALG(38, 68), MOR(1), TUN(1).
- Dicranella heteromalla* (Hedw.) Schimp. var. *interrupta* (Hedw.) Schimp. = *Dicranella heteromalla* (Hedw.) Schimp. fo. *interrupta* (Hedw.) Mönk.
- Dicranella heteromalla* (Hedw.) Schimp. fo. *interrupta* (Hedw.) Mönk. MOR(1), TUN(38, 67).

Dicranella howei Renaud & Cardot ALG(1, 55), LBY(93, 119), MOR(1, 67), TUN(1).

Dicranella varia (Hedw.) Schimp. ALG(1, 2, 38, 68), LBY(8, 93, 119, 121) MOR(1, 38, 67), SPA(1), TUN(1).

Dicranella varia (Hedw.) Schimp. var. *tenuifolia* (Bruch, Schimp. & W.Gümbel) Schimp. = *Dicranella howei* Renaud & Cardot (Crundwell & Nyholm, 1977)

Dicranoweisia cirrata (Hedw.) Lindb. ex Milde ALG(1, 8, 38), MOR(1, 38, 67, 73), TUN(1).

Dicranoweisia crispula (Hedw.) Milde ALG(1, 38), MOR(38).

Dicranum flagellare Hedw.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Dicranum scoparium Hedw. ALG(1), TUN(1).

Dicranum tauricum Sapjegin ALG(1, 38, 67).

Didymodon aaronis (Lorentz) J.Guerra ALG(122), EGY(31).

Didymodon acutus (Brid.) K.Saito = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander

Didymodon australasiae (Hook. & Grev.) R.H.Zander MOR(55), SPA(55), TUN(126).

Didymodon fallax (Hedw.) R.H.Zander ALG(1, 8, 38, 55), LBY(93, 115, 119), MOR(1, 73), TUN(1).

Didymodon fallax (Hedw.) R.H.Zander var. *brevifolius* (Dicks. ex With.) Ochyra MOR(1).

Didymodon ferrugineus (Schimp. ex Besch.) M.O.Hill

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Didymodon insulanus (De Not.) M.O.Hill = *Didymodon vinealis* (Brid.) R.H.Zander

Didymodon luridus Hornch. ex Spreng. ALG(1, 55), CHA(100, 101), LBY(93, 115, 119), MOR(1, 55), SPA(55), TUN(1).

The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.

Didymodon rigidulus Hedw. ALG(1, 8, 122), LBY(8, 91, 93, 95, 119, 121), MOR(1, 67, 73, 138), TUN(1, 8).

Didymodon rigidulus Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) R.H.Zander ALG(1, 55), EGY(24, 31), LBY(110, 119), MOR(1, 73), TUN(1, 55, 126).

Didymodon rubellus Bruch, Schimp. & W.Gümbel = *Bryoerythrophyllum recurvirostrum* (Hedw.) P.C.Chen
Didymodon sinuosus (Mitt.) Delogne.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Didymodon tectorum (Müll.Hal.) K.Saito EGY(31).

Didymodon tophaceus (Brid.) Lisa ALG(1, 15, 26, 38), CHA(101), EGY(23, 24, 25, 31, 64), LBY(8, 93, 115, 119), MOR(1, 38), TUN(1, 62, 126).

Didymodon tophaceus (Brid.) Lisa var. *acutifolius* Limpr. = *Didymodon tophaceus* (Brid.) Lisa fo. *acutifolius* (Boulay) Zodda

Didymodon tophaceus (Brid.) Lisa var. *brevifolius* (Bruch, Schimp. & W.Gümbel) Warnst. LBY(93, 119).

Didymodon tophaceus (Brid.) Lisa var. *cucullatus* Bott., Bolletino di Studi ed R. Giardino Coloniale. Palermo: 4. 1914 (*) LBY(115).

Didymodon tophaceus (Brid.) Lisa var. *humilis* (Schimp.) Warnst. EGY(31).

Didymodon tophaceus (Brid.) Lisa var. *lingulatus* (Boulay) Warnst. = *Didymodon tophaceus* (Brid.) Lisa fo. *lingulatus* (Boulay) Mönk.

Didymodon tophaceus (Brid.) Lisa var. *recurvifolia* Boulay (*) = *Didymodon tophaceus* (Brid.) Lisa fo. *recurvifolius* (Boulay) Willd.

Didymodon tophaceus (Brid.) Lisa fo. *acutifolius* (Boulay) Zodda ALG(1), LBY(95, 115), MOR(1).

Didymodon tophaceus (Brid.) Lisa fo. *brevicaulis* (Weiss) Podp. ALG(1).

Didymodon tophaceus (Brid.) Lisa fo. *brevifolia* Bruch, Schimp. & W.Gümbel (*) = *Didymodon tophaceus* (Brid.) Lisa var. *brevifolius* (Bruch, Schimp. & W.Gümbel) Warnst.

Didymodon tophaceus (Brid.) Lisa fo. *elato-lingulata* Boulay (*) MOR(1).

Didymodon tophaceus (Brid.) Lisa fo. *lingulatus* (Boulay) Mönk. LBY(93).

The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.

Didymodon tophaceus (Brid.) Lisa fo. *recurvifolius* (Boulay) Willd. ALG(1, 38), MOR(1).

Didymodon trabutii Corb. in Jelenc *nom.nud.* = *Barbula trabutii* Jelenc *nom. inval. descr. gall.*

Didymodon trifarius (Hedw.) Röhl. = *Didymodon luridus* Hornch. ex Spreng.

Didymodon vinealis (Brid.) R.H.Zander ALG(1, 2, 8, 38, 55), EGY(24, 25, 31), LBY(93, 95, 111, 115, 119), MLI(1), MOR(1, 38, 55, 73, 122), TUN(1).

Didymodon vinealis (Brid.) R.H.Zander var. *viridis* Jelenc ALG(1).

Distichium capillaceum (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1, 36, 38, 67).

- Distichium inclinatum* (Hedw.) Bruch, Schimp. & W.Gümbel MOR(1, 38).
- Ditrichum flexicaule* (Schwägr.) Hampe ALG(1, 38), MOR(1).
- Ditrichum heteromallum* (Hedw.) E.Britton MOR(1).
- Ditrichum pusillum* (Hedw.) Hampe ALG(1).
- Ditrichum subulatum* Hampe ALG(1, 38), MOR(1, 75), TUN(1, 71).
- Ditrichum tortile* (Schrad.) Brockm. = *Ditrichum pusillum* (Hedw.) Hampe
- Dolichotheca silesiaca* (F.Weber & D.Mohr) Fleisch. = *Herzogiella seligeri* (Brid.) Z.Iwats.
- Drepanium cupressiforme* (Hedw.) G.Roth = *Hypnum cupressiforme* Hedw.
- Drepanocladus aduncus* (Hedw.) Warnst. ALG(1), MOR(1, 39, 57).
- Drepanocladus aduncus* (Hedw.) Warnst. ssp. *pseudofluitans* (Sanio) Jelenc = *Drepanocladus aduncus* (Hedw.) Warnst. fo. *pseudofluitans* (Sanio) Mönk.
- Drepanocladus aduncus* (Hedw.) Warnst. var. *intermedius* (Schimp.) G.Roth = *Drepanocladus aduncus* (Hedw.) Warnst. fo. *intermedius* (Schimp.) Mönk.
- Drepanocladus aduncus* (Hedw.) Warnst. var. *kneiffii* (Bruch, Schimp. & W.Gümbel) Mönk. LBY(93, 119).
- Drepanocladus aduncus* (Hedw.) Warnst. var. *laxus* (Milde) Grout = *Drepanocladus aduncus* (Hedw.) Warnst. fo. *laxus* (Milde) Grout
- Drepanocladus aduncus* (Hedw.) Warnst. var. *paternus* (Sanio) Grout = *Drepanocladus aduncus* (Hedw.) Warnst. fo. *paternus* (Sanio) Grout
- Drepanocladus aduncus* (Hedw.) Warnst. fo. *aquaticus* (Sanio) Mönk. ALG(1).
- Drepanocladus aduncus* (Hedw.) Warnst. fo. *intermedius* (Schimp.) Mönk. ALG(1).
- Drepanocladus aduncus* (Hedw.) Warnst. fo. *laxus* (Milde) Grout ALG(1), MOR(1).
- Drepanocladus aduncus* (Hedw.) Warnst. fo. *paternus* (Sanio) Grout ALG(1).
- Drepanocladus aduncus* (Hedw.) Warnst. fo. *pseudofluitans* (Sanio) Mönk. ALG(1), MOR(1).
- Drepanocladus exannulatus* (Bruch, Schimp. & W.Gümbel) Warnst. = *Warnstorfia exannulata* (Bruch, Schimp. & W.Gümbel) Loeske
- Drepanocladus fluitans* (Hedw.) Warnst. = *Warnstorfia fluitans* (Hedw.) Loeske
- Drepanocladus kneiffii* (Bruch, Schimp. & W.Gümbel) Warnst. = *Drepanocladus aduncus* (Hedw.) Warnst. var. *kneiffii* (Bruch, Schimp. & W.Gümbel) Mönk.
- Drepanocladus polygamus* (Bruch, Schimp. & W.Gümbel) Hedenas MOR(1).
- Drepanocladus sendtneri* (Schimp. ex H.Müll.) Warnst. MOR(1).
- Drepanocladus uncinatus* (Hedw.) Warnst. var. *plumosus* (Schimp.) Warnst. MOR(1).
- According to Hedenäs (1989) this taxon is doubtful, because no type material could be localised and the only sample in Schimper's collection corresponds to *Sanionia uncinata* (Hedw.) Loeske
- Drepanocladus vernicosus* (Mitt.) Warnst. = *Hamatocaulis vernicosus* (Mitt.) Hedenas
- Dryptodon hartmanii* (Schimp.) Limpr. = *Grimmia hartmanii* Schimp.
- Encalypta alpina* Sm. MOR(1).
- Encalypta ciliata* Hedw. North Africa (1).
- Encalypta contorta* Hoppe ex Lindb. = *Encalypta streptocarpa* Hedw.
- Encalypta litardieri* Thér. & Trab. = *Tortula euryphylla* R.H.Zander (Horton, 1983)
- Encalypta rhaptocarpa* Schwägr.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Encalypta rhaptocarpa* Schwägr. var. *leptodon* Limpr. = *Encalypta rhaptocarpa* Schwägr. var. *trachymitria* (Ripart) Wijk & Margad.
- Encalypta rhaptocarpa* Schwägr. var. *trachymitria* (Ripart) Wijk & Margad. ALG(1), LBY(115, 119), TUN(1).
- Encalypta streptocarpa* Hedw. MOR(1).
- Encalypta vulgaris* Hedw. ALG(1, 2, 38, 68), CHA(99, 100), LBY(91, 93, 119), MOR(1, 38, 67, 73, 126, 138), TUN(1, 126).
- Encalypta vulgaris* Hedw. var. *gymnostoma* Besch. nom. nud. ALG(1), MOR(1).
- Encalypta vulgaris* Hedw. var. *mutica* Brid. ALG(1, 38), LBY(95), MOR(1), TUN(1).
- Encalypta vulgaris* Hedw. var. *obtusifolia* (Funck) Husn. = *Encalypta vulgaris* Hedw. var. *mutica* Brid.
- Entosthodon attenuatus* (Dicks.) Bryhn ALG(1), EGY(64), MOR(1, 38, 122), SPA(55), TUN(1).
- Entosthodon commutatus* Durieu & Mont. ALG(1).
- Entosthodon curvi-apiculatus* Müll.Hal. EGY(60, 90).
- Entosthodon curvisetus* (Schwägr.) Müll.Hal. = *Funariella curviseta* (Schwägr.) Sergio
- Entosthodon curvisetus* (Schwägr.) Müll.Hal. var. *xanthocarpus* (P. de la Varde) Jelenc MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Funariella curviseta* (Schwägr.) Sergio
- Entosthodon deserticola* (Trab.) Jelenc ALG(1).
- Entosthodon durieui* Mont. ALG(1, 2, 67, 123, 127), CHA(100), EGY(25, 31, 98), LBY(91, 95), MOR(1).
- Entosthodon ericetorum* (De Not.) Müll.Hal. = *Entosthodon obtusus* (Hedw.) Lindb.
- Entosthodon ericetorum* (De Not.) Müll.Hal. fo. *elata* Besch., Catalogue des mousses observées en Algérie: 22. 1882 nom. nud. (*) ALG(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Entosthodon obtusus* (Hedw.) Lindb.

- Entosthodon fascicularis* (Hedw.) Müll.Hal. ALG(1), EGY(31), MOR(1).
- Entosthodon hungaricus* (Boros) Loeske MOR(1, 125).
- Entosthodon maroccanus* (Meyl.) Hebr. & Lo Giudice = *Entosthodon hungaricus* (Boros) Loeske (Cano *et al.*, 1999).
- Entosthodon mouretii* (Corb.) Jelenc MOR(1).
- Entosthodon mustaphae* Trab. = *Entosthodon durieui* Mont.
- Entosthodon niloticus* (Delile) Schimp. = *Physcomitrium niloticum* (Delile) Müll.Hal. *et pp. non typ. Entosthodon niloticus* Schimp.
- Entosthodon niloticus* Schimp. EGY(31, 90, 98)
- Entosthodon obtusus* (Hedw.) Lindb. ALG(1), EGY(31), MOR(1, 55), TUN(1).
- Entosthodon pallescens* Jur. = *Entosthodon durieui* Mont. (Brugués, 1998)
- Entosthodon saharae* (Trab.) Jelenc ALG(1), CHA(100).
- Entosthodon schweinfurthii* Müll.Hal. *nom.nud.* EGY(90).
- Entosthodon subpallescens* Müll.Hal. *nom. nud.* LBY(110, 119).
- Ephemerum cohaerens* (Hedw.) Hampe
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Ephemerum longifolium* Schimp. ALG(1).
- Ephemerum recurvifolium* (Dicks.) Boulay ALG(1), TUN(8).
- Ephemerum serratum* (Hedw.) Hampe MOR(1).
- Ephemerum sessile* (Bruch) Müll.Hal. MOR(1).
- Ephemerum stellatum* H.Philib. MOR(1).
- Epipterygium tozeri* (Grev.) Lindb. ALG(1, 38), MOR(1, 5, 38), TUN(1).
- Eucladium verticillatum* (Brid.) Bruch, Schimp. & W.Gümbel ALG(1, 2, 38, 68), CHA(1, 101,107), EGY(31), LBY(91, 93, 119), MLI(1), MOR(1, 38), TUN(1).
- Eucladium verticillatum* (Brid.) Bruch, Schimp. & W.Gümbel var. *angustifolium* Lindb. ALG(38), LBY(93, 119).
- Eucladium verticillatum* (Brid.) Bruch, Schimp. & W.Gümbel var. *clinotheca* (Besch.) Paris ALG(1).
- Eucladium verticillatum* (Brid.) Bruch, Schimp. & W.Gümbel fo. *clinotheca* Besch. = *Eucladium verticillatum* (Brid.) Bruch, Schimp. & W.Gümbel var. *clinotheca* (Besch.) Paris
- Eurhynchium circinatum* (Brid.) Bruch, Schimp. & W.Gümbel = *Scorpiurium circinatum* (Brid.) M.Fleisch. & Loeske
- Eurhynchium crassinervium* (Taylor) Bruch, Schimp. & W.Gümbel = *Cirriphyllum crassinervium* (Wilson) Loeske & M.Fleisch. (Hedenäs, 1992)
- Eurhynchium hercynicum* Milde = *Rhynchostegium confer-tum* (Dicks.) Bruch, Schimp. & W.Gümbel var. *hercynicum* (Milde) A.Jaeger
- Eurhynchium hians* (Hedw.) Sande Lac. ALG(1, 2, 38), MOR(1), TUN(1).
- Eurhynchium hians* (Hedw.) Sande Lac. var. *rigidum* (Boulay) Thér. TUN(1).
- Eurhynchium meridionale* (Bruch, Schimp. & W.Gümbel) De Not. ALG(1), MOR(1), TUN(1).
- Eurhynchium praelongum* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1, 2, 38), MOR(1, 38), TUN(1, 38, 76).
- Eurhynchium praelongum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *stokesii* (Turner) Dixon
- The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Eurhynchium pulchellum* (Hedw.) Jenn. ALG(1).
- Eurhynchium pulchellum* (Hedw.) Jenn. var. *diversifolium* (Bruch, Schimp. & W.Gümbel) C.E.O.Jensen North Africa(1)
- Eurhynchium pulchellum* (Hedw.) Jenn. var. *praecox* (Hedw.) G.N.Jones ALG(1), MOR(73), TUN(1).
- Eurhynchium pumilum* (Wilson) Schimp. ALG(1, 38), EGY(94, 130), LBY(119), MOR(1).
- Eurhynchium speciosum* (Brid.) Jur. ALG(1, 38), CHA(106).
- Eurhynchium striatulum* (Spruce) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1).
- Eurhynchium striatum* (Hedw.) Schimp. ALG(1).
- Eurhynchium strigosum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel = *Eurhynchium pulchellum* (Hedw.) Jenn.
- Eurhynchium strigosum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel var. *diversifolium* (Bruch, Schimp. & W.Gümbel) Molendo & Lorentz = *Eurhynchium pulchellum* (Hedw.) Jenn. var. *diversifolium* (Bruch, Schimp. & W.Gümbel) C.E.O.Jensen
- Eurhynchium strigosum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel var. *imbricatum* Bruch, Schimp. & W.Gümbel = *Eurhynchium pulchellum* (Hedw.) Jenn. var. *praecox* (Hedw.) G.N.Jones
- Eurhynchium strigosum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel var. *praecox* (Hedw.) Husn. = *Eurhynchium pulchellum* (Hedw.) Jenn. var. *praecox* (Hedw.) G.N.Jones
- Fabronia ciliaris* (Brid.) Brid. TUN(1).
- Fabronia gueinzii* Hampe in Müll.Hal. MOR(75).
- Fabronia leikipiae* Müll.Hal. var. *ahaggarensis* Thér. & Trab. ALG(1).
- Fabronia octoblepharis* Schwägr. = *Fabronia ciliaris* (Brid.) Brid.
- Fabronia pusilla* Raddi ALG(1, 32), CHA(101), MOR(1), TUN(1).
- Fabronia pusilla* Raddi var. *ciliata* Lesq. & James ALG(1), MOR(1), TUN(1).
- Fabronia pusilla* Raddi var. *schimperi* Lindb. = *Fabronia pusilla* Raddi var. *ciliata* Lesq. & James
- Fissidens adiantoides* Hedw. ALG(1), MOR(1).
- Fissidens alexandrinus* Lorentz = *Fissidens limbatus* Sull.
- Fissidens algarvicus* Solms = *Fissidens curvatus* Hornsch. (Bruggeman-Nannenga & Purszell, 1995)

- Fissidens antinae* P. de la Varde in Thér. ALG(1).
Fissidens arnoldii R.Ruthe EGY(31).
Fissidens bambergeri Schimp. = *Fissidens viridulus* (Sw.) Wahlenb. var. *bambergeri* (Schimp. ex Milde) Waldh.
Fissidens bryoides Hedw. MOR(1), TUN(1).
Fissidens bryoides Hedw. ssp. *viridulus* (Sw.) Kindb. = *Fissidens viridulus* (Sw.) Wahlenb.
Fissidens bryoides Hedw. var. *caespitans* Schimp. = *Fissidens curnovii* Mitt.
Fissidens bryoides Hedw. var. *inconstans* (Schimp.) R.Ruthe TUN(38).
Fissidens bryoides Hedw. var. *pusillus* (Wilson) Pursell ALG(38, 67).
Fissidens cameruniae Müll.Hal. = *Fissidens zippelianus* Dozy & Molk. (Pursell, Bruggeman-Nannenga & Iwatsuki, 1992)
Fissidens crassipes Wilson ex Bruch, Schimp. & W.Gümbel ALG(1, 38), EGY(94), MOR(1), TUN(38, 67).
Fissidens crassipes Wilson ex Bruch, Schimp. & W.Gümbel ssp. *warnstorffii* (M.Fleisch.) Brugg.-Nann. ALG(1, 13, 38), EGY(13, 24, 96), MOR(1, 13).
Fissidens crassipes Wilson ex Bruch, Schimp. & W.Gümbel var. *philibertii* Besch. = *Fissidens crassipes* Wilson ex Bruch, Schimp. & W.Gümbel ssp. *warnstorffii* (M.Fleisch.) Brugg.-Nann.
Fissidens crispulus Brid. CHA(99, 100, 101, 106).
Fissidens cristatus Mitt. = *Fissidens dubius* P. Beauv.
Fissidens curnovii Mitt. MOR(1), TUN(1, 14).
Fissidens curvatus Hornsch. ALG(1), MOR(1), TUN(1).
Fissidens cyprius Jur. = *Fissidens limbatus* Sull.
Fissidens dubius P. Beauv. ALG(1, 2, 38).
Fissidens exiguus Sull. = *Fissidens bryoides* Hedw. var. *pusillus* (Wilson) Pursell (Pursell, 1997)
Fissidens exilis Hedw. ALG(1).
Fissidens fontanus (Bach.Pyl.) Steud. ALG(1), CHA(100, 134), MOR(1).
Fissidens freymi P. de la Varde = *Fissidens zippelianus* Dozy & Molk. (Pursell et al., 1992)
Fissidens grandifrons Brid. ALG(1), MOR(1).
Fissidens herzogii R.Ruthe ex Herzog = *Fissidens limbatus* Sull.
Fissidens impar Mitt. = *Fissidens viridulus* (Sw.) Wahlenb.
Fissidens inconstans Schimp. = *Fissidens bryoides* Hedw. var. *inconstans* (Schimp.) R.Ruthe
Fissidens incurvus Starke ex Röhl. ALG(1, 2, 38), LBY(91, 115), MOR(1, 38, 67, 73), TUN(1).
Fissidens incurvus Starke ex Röhl. var. *tamarindifolius* (Turner) Braithw. LBY(119).
Fissidens julianus (DC.) Schimp. = *Fissidens fontanus* (Bach.Pyl.) Steud. (Pursell, 1987)
Fissidens limbatus Sull. ALG(1, 38, 55), EGY(31, 94, 98), LBY(110, 119), MOR(1).
Fissidens mildeanus Schimp. = *Fissidens crassipes* Wilson ex Bruch, Schimp. & W.Gümbel
Fissidens mnevidis J.J.Amann = *Fissidens crassipes* Wilson ex Bruch, Schimp. & W. Gümbel ssp. *warnstorffii* (M. Fleisch.) Brugg.-Nann. (Bruggeman-Nannenga, 1982)
Fissidens mouretii Corb. LBY(91).
Fissidens obductus (Venturi) Giacom. = *Fissidens ovatifolius* R.Ruthe
Fissidens ovatifolius R.Ruthe ALG(1, 10, 38), MOR(1, 10, 14).
Fissidens pusillus (Wilson) Milde ALG(1, 38), LBY(91, 93, 119), MOR(1), TUN(1).
Fissidens rivularis (Spruce) Bruch, Schimp. & W.Gümbel ALG(1)
Fissidens rufulus Bruch, Schimp. & W.Gümbel LBY(119).
Fissidens serrulatus Brid. ALG(1), MOR(1, 38, 39, 57, 133), TUN(1, 38, 133).
Fissidens serrulatus Brid. var. *africanus* Besch. = *Fissidens serrulatus* Brid. (Sérgio, Iwatsuki & Ederra, 1997)
Fissidens submarginatus H.Philib. = *Fissidens exiguus* Sull.
Fissidens tamarindifolius (Turner) Brid. = *Fissidens incurvus* Starke ex Röhl. var. *tamarindifolius* (Turner) Braithw.
Fissidens taxifolius Hedw. ALG(1, 38, 46, 55), MOR(1, 38, 39, 57, 73), TUN(1, 19).
Fissidens taxifolius Hedw. ssp. *pallidicaulis* (Mitt.) Mönk.
The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
Fissidens taxifolius Hedw. var. *bonvaleti* (Schimp. & Paris) Besch. = *Fissidens taxifolius* Hedw.
Fissidens viridulus (Sw.) Wahlenb. ALG(1, 2, 38, 55), EGY(24, 25, 31), MOR(1, 38).
Fissidens viridulus (Sw.) Wahlenb. ssp. *bambergeri* (Schimp.) Kindb. = *Fissidens viridulus* (Sw.) Wahlenb. var. *bambergeri* (Schimp.) Waldh.
Fissidens viridulus (Sw.) Wahlenb. var. *algeriensis* Corb. ALG(1).
Fissidens viridulus (Sw.) Wahlenb. var. *bambergeri* (Schimp.) Waldh. ALG(1, 38), EGY(23).
Fissidens warnstorffii M.Fleisch. = *Fissidens crassipes* Wilson ex Bruch, Schimp. & W.Gümbel ssp. *warnstorffii* (M.Fleisch.) Brugg.-Nann.
Fissidens zippelianus Dozy & Molk. = *Fissidens crispulus* Brid. (Bruggeman-Nannenga, 1997)
Fontinalis antipyretica Hedw. ALG(1, 38, 63), MOR(1, 36, 38, 56, 63, 67, 73), TUN(1, 63).
Fontinalis antipyretica Hedw. var. *rufescens* Besch. ex Cardot ALG(1).
Fontinalis antipyretica Hedw. var. *gigantea* (Sull.) Sull.
The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
Fontinalis bovei Cardot = *Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb.
Fontinalis constantinica Cardot ex Jelenc = *Fontinalis antipyretica* Hedw.
Fontinalis durieui Schimp. = *Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb.
Fontinalis durieui Schimp. var. *integra* Trab. in Maire &

- Werner = *Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb.
- Fontinalis fasciculata* Lindb. = *Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb.
- Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb. ALG(1, 38, 63), MOR(1, 63), TUN(1).
- Fontinalis pseudo-duriei* Cardot in Jelenc = *Fontinalis antipyretica* Hedw.
- Fontinalis seriata* Lindb. var. *pseudo-fasciculata* P. de la Varde, Catalogus Bryophytorum Maroccanorum adhuc cognitorum: 260. 1932 *nom. nud.* (*) MOR(1).
- Fontinalis squamosa* Hedw. ALG(1), MOR(1).
- Fontinalis trabutii* Cardot in Jelenc = *Fontinalis hypnoides* Hartm. var. *duriaei* (Schimp.) Kindb.
- Funaria algeriensis* Lindb. in Broth. = *Funaria duriaei* Schimp. in Besch.
- Funaria altissima* Dixon ALG(1).
- Funaria anomala* Jur. EGY(98).
- Funaria calcarea* Wahlenb. var. *mediterranea* (Lindb.) C.E.O.Jensen & Medelius = *Funaria muhlenbergii* Turner
- Funaria commutata* (Durieu & Mont.) Lindb. = *Entosthodon commutatus* Durieu & Mont.
- Funaria convexa* Spruce ALG(1), MOR(1), SPA(1), TUN(1).
- Funaria dentata* Crome = *Funaria muhlenbergii* Turn.
- Funaria dentata* Crome var. *convexa* (Spruce) Bott. in Loeske = *Funaria convexa* Spruce
- Funaria dentata* Crome var. *hibernica* (Hook.) Loeske = *Funaria muhlenbergii* Turner
- Funaria dentata* Crome var. *longifolia* Jelenc *nom. nud.* TUN(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Funaria muhlenbergii* Turner.
- Funaria dentata* Crome var. *mediterranea* (Lindb.) Limpr. = *Funaria muhlenbergii* Turn.
- Funaria dentata* Crome var. *patula* (Bruch, Schimp. & W.Gümbel) Jelenc ARG(2, 38).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Funaria muhlenbergii* Turner.
- Funaria duriaei* Schimp. in Besch. ALG(1).
- Funaria duriaei* (Mont.) Broth. = *Entosthodon duriei* Mont.
- Funaria fascicularis* (Hedw.) Lindb. = *Entosthodon fascicularis* (Hedw.) Müll.Hal.
- Funaria fontanesii* Schwägr. = *Funaria pulchella* H.Philib.
- Funaria handelii* Schiffn. EGY(31).
- Funaria hygrometrica* Hedw. ALG(1, 38), CHA(1, 101, 107), EGY(11, 23, 24, 25, 31, 90, 94, 98), LBY(93, 119), MOR(1, 36, 38, 73), SPA(1), TUN(1).
- Funaria hygrometrica* Hedw. var. *macrocarpa* Jelenc = *Funaria hygrometrica* Hedw. fo. *macrocarpa* Besch.
- Funaria hygrometrica* Hedw. var. *ahhagarensis* Thér. & Trab. ALG(1, 82).
- Funaria hygrometrica* Hedw. var. *brevipes* Trab. in Jelenc *nom. nud.* ALG(1).
- Funaria hygrometrica* Hedw. var. *calvescens* (Schwägr.) Mont. LBY(119).
- Funaria hygrometrica* Hedw. var. *dentata* Corb. in Maire & Werner *nom. nud.* MOR(1).
- Funaria hygrometrica* Hedw. var. *intermedia* (Warnst.) Warnst.
- The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this taxons was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Funaria hygrometrica* Hedw. var. *muralis* Huebener MOR(67).
- The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this taxon was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Funaria hygrometrica* Hedw. var. *patula* Bruch, Schimp. & W.Gümbel = *Funaria hygrometrica* Hedw.
- Funaria hygrometrica* Hedw. fo. *macrocarpa* Besch. ALG(1).
- Funaria mediterranea* Lindb. = *Funaria muhlenbergii* Turn.
- Funaria microstoma* Bruch ex Schimp. ALG(38, 67), MOR(1).
- Funaria muhlenbergii* Turner ALG(1, 38, 55, 67, 68), EGY(23, 24, 31), LBY(91, 95, 111, 119), MOR(1, 38, 73, 121), TUN(1).
- Funaria mustaphae* (Trab.) Broth. = *Entosthodon duriei* Mont.
- Funaria nilotica* Broth. = *Entosthodon niloticus* Schimp.
- Funaria nubica* Müll.Hal. EGY(90).
- Funaria obtusa* (Hedw.) Lindb. = *Entosthodon obtusus* (Hedw.) Lindb.
- Funaria pallescens* (Jur.) Lindb. = *Entosthodon duriei* Mont.
- Funaria pulchella* H.Philib. ALG(16), EGY(16, 113), SPA(55), MOR(16, 126).
- Funaria saharae* Trab. = *Entosthodon saharae* (Trab.) Jelenc
- Funaria sickenbergeri* Müll.Hal. EGY(90).
- Funariella curviseta* (Schwägr.) Sergio ALG(1, 38), LBY(110), MOR(1, 73), SPA(1), TUN(1).
- Gigaspermum mouretii* Corb. MOR(1, 38, 126).
- Grimmia alpestris* (F.Weber & D.Mohr) Schleich. ex Hornsch. MOR(1).
- Grimmia alpicola* Sw. ex Hedw. = *Schistidium agassizii* Sull. & Lesq.
- Grimmia anodon* Bruch & Schimp. ALG(1, 38), MOR(36, 38, 73, 79).

- Grimmia apocarpa* Hedw. = *Schistidium apocarpum* (Hedw.) Bruch & Schimp.
- Grimmia apocarpa* Hedw. ssp. *conferta* (Funck) Boulay = *Schistidium confertum* (Funck) Bruch & Schimp.
- Grimmia auresia* Besch. = *Grimmia pulvinata* (Hedw.) Sm. (Muñoz, 1999)
- Grimmia campestris* Burch. ex Hook. = *Grimmia laevigata* (Brid.) Brid.
- Grimmia capillata* De Not. ALG(1, 29), TUN(1).
- Grimmia commutata* Huebener = *Grimmia ovalis* (Hedw.) Lindb.
- Grimmia commutata* Huebener var. *maroccana* Meyl. nom. nud. = *Grimmia ovalis* (Hedw.) Lindb.
- Grimmia commutata* Huebener fo. *subepilosa* Braun-Blanq., Revue Bryologique et Lichénologique 23: 102. 1954 nom. nud. (*) MOR(73).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Grimmia ovalis* (Hedw.) Lindb.
- Grimmia cossonii* Besch. = *Grimmia ovalis* (Hedw.) Lindb. (Muñoz, 1999)
- Grimmia crinita* Brid. ALG(1, 26, 29), MOR(1), TUN(1, 29).
The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Grimmia crinita* Brid. var. *brevis* Boulay = *Grimmia crinita* Brid. fo. *brevis* (Boulay) Podp.
- Grimmia crinita* Brid. var. *elongata* Bruch & Schimp. ALG(1), TUN(1).
- Grimmia crinita* Brid. fo. *brevis* (Boulay) Podp. TUN(1).
- Grimmia crinita* Brid. fo. *compacta* Besch., Catalogue des mousses observées en Algérie: 16. 1882 nom. nud. (*) ALG(1).
- Grimmia decipiens* (Schultz) Lindb. ALG(1, 38), MOR(38), TUN(1).
- Grimmia donniana* Sm.
The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Grimmia funalis* (Schwägr.) Bruch & Schimp. ALG(1).
- Grimmia hartmanii* Schimp. ALG(1), MOR(73).
- Grimmia laevigata* (Brid.) Brid. ALG(1, 38), CHA(99, 100, 101), MOR(1, 38, 67), TUN(1).
- Grimmia lisae* De Not. ALG(1, 38, 67), CHA(99, 100), LBY(95, 119) MOR(1), SPA(1), TUN(1, 38, 67).
- Grimmia mairei* Cardot & Copp. ALG(1, 26, 81), CHA(100), MOR(1, 38, 81), TUN(8).
- Grimmia montana* Bruch & Schimp. ALG(1), MOR(1).
- Grimmia muehlenbeckii* Schimp. MOR(1).
- Grimmia orbicularis* Bruch ex Wilson ALG(1, 2, 8, 26, 38, 68), LBY(91, 95, 115, 119), MOR(1, 2, 38, 73), TUN(1).
- Grimmia orbicularis* Bruch ex Wilson var. *bescherellei* Corb. = *Grimmia pulvinata* (Hedw.) Sm. var. *bescherellei* (Corb.) Wijk & Margad.
- Grimmia orbicularis* Bruch ex Wilson var. *longipila* Husn. ALG(1).
- Grimmia ovalis* (Hedw.) Lindb. ALG(1, 8, 38, 67), MOR(1, 67, 73), TUN(1).
- Grimmia pitardii* Corb. = *Campylostelium pitardii* (Corb.) E.Maier (Maier, 1998)
- Grimmia plagiopodia* Hedw. MOR(1).
- Grimmia pulvinata* (Hedw.) Sm. ALG(1, 2, 8, 38), CHA(99, 100), LBY(93, 119), MOR(1, 38, 73), TUN(1, 8).
- Grimmia pulvinata* (Hedw.) Sm. var. *africana* (Hedw.) Hook. MOR(1).
- Grimmia pulvinata* (Hedw.) Sm. var. *bescherellei* (Corb.) Wijk & Margad. ALG(1).
- Grimmia pulvinata* (Hedw.) Sm. var. *longipila* Schimp. ALG(1, 38).
- Grimmia pulvinata* (Hedw.) Sm. var. *obtusa* (Brid.) Huebener = *Grimmia pulvinata* (Hedw.) Sm. var. *africana* (Hedw.) Hook.
- Grimmia sardoa* Müll.Hal. = *Grimmia lisae* De Not.
- Grimmia teretinervis* Limpr. ALG(1).
- Grimmia tergestina* Tomm. ALG(1), MOR(1).
- Grimmia trichophylla* Grev. ALG(1), CHA(106), MOR(1, 73), TUN(1).
- Grimmia trichophylla* Grev. ssp. *lisae* (De Not.) Boulay = *Grimmia lisae* De Not.
- Grimmia trichophylla* Grev. ssp. *meridionalis* (Müll.Hal) Loeske = *Grimmia trichophylla* Grev.
- Grimmia trichophylla* Grev. ssp. *muehlenbeckii* (Schimp.) Boulay = *Grimmia muehlenbeckii* Schimp.
- Grimmia trichophylla* Grev. var. *meridionalis* Müll.Hal. = *Grimmia trichophylla* Grev.
- Grimmia trichophylla* Grev. var. *sardoa* (Müll.Hal.) Boulay = *Grimmia lisae* De Not.
- Grimmia trichophylla* Grev. var. *submutica* Boulay TUN(1).
- Grimmia trichophylla* Grev. fo. *tenella* Besch. ALG(1).
- Grimmia verticillatula* Thér. & Trab. MOR(1).
- Gymnostomiella laevis* J.Froehl. ex Iman & Ghabbour, Botaniska Notiser, 125: 521. 1972 nom. nud. (*) EGY(31).
- Gymnostomiella monodii* P.de la Varde MTN(103).
- Gymnostomum aeruginosum* Sm. ALG(1), CHA(106), MOR(1), TUN(1).
- Gymnostomum calcareum* Nees & Hornsch. ALG(1, 2, 38, 55, 62), CHA(99, 100, 101, 106), EGY(24, 25, 31, 62, 94), LBY(91, 93, 119), MOR(1, 38, 67, 73), TUN(1, 71).
- Gymnostomum calcareum* Nees & Hornsch. var. *brevifolium* Schimp. = *Gymnostomum viridulum* Brid.
- Gymnostomum calcareum* Nees & Hornsch. var. *gracillimum* (Nees & Hornsch.) Bruch, Schimp. & W.Gümbel = *Gymnostomum calcareum* Nees & Hornsch.

- Gymnostomum calcareum* Nees & Hornsch. var. *intermedium* Schimp. = *Gymnostomum calcareum* Nees & Hornsch. fo. *intermedium* (Schimp.) Podp.
- Gymnostomum calcareum* Nees & Hornsch. var. *muticum* Boulay ALG(1), LBY(91, 95, 119).
- Gymnostomum calcareum* Nees & Hornsch. var. *obtusum* Boulay (*) LBY(95).
- Gymnostomum calcareum* Nees & Hornsch. var. *viridulum* (Brid.) Bruch, Schimp. & W.Gümbel = *Gymnostomum viridulum* Brid.
- Gymnostomum calcareum* Nees & Hornsch. fo. *intermedium* (Schimp.) Podp. MOR(1).
- Gymnostomum luisieri* (Sergio) Sergio ex Crundw. = *Gymnostomum viridulum* Brid.
- Gymnostomum niloticum* Delile = *Entosthodon niloticus* (Delile) Schimp.
- Gymnostomum rupestre* Scheich. ex Schwägr. = *Gymnostomum aeruginosum* Sm.
- Gymnostomum viridulum* Brid. ALG(1, 55), EGY(31, 62), MOR(62, 126), TUN(62, 126).
- Gyroweisia reflexa* (Brid.) Schimp. ALG(1), EGY(31), LBY(119), MOR(1).
- Gyroweisia tenuis* (Hedw.) Schimp. MOR(1), TUN(1).
- The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Gyroweisia tenuis* (Hedw.) Schimp. var. *badia* Limpr.
- The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Habrodon perpusillus* (De Not.) Lindb. ALG(1, 2, 38, 68), TUN(1).
- Hamatocaulis vernicosus* (Mitt.) Hedenas ALG(1).
- Hedwigia albicans* Lindb. = *Hedwigia ciliata* (Hedw.) P. Beauv.
- Hedwigia albicans* Lindb. var. *leucophaea* (Bruch, Schimp. & W.Gümbel) Limpr. = *Hedwigia ciliata* (Hedw.) P. Beauv. var. *leucophaea* Bruch, Schimp. & W.Gümbel (Hedenäs, 1994)
- Hedwigia albicans* Lindb. var. *viridis* (Bruch, Schimp. & W.Gümbel) Limpr. = *Hedwigia ciliata* (Hedw.) P. Beauv. var. *viridis* Bruch, Schimp. & W.Gümbel
- Hedwigia ciliata* (Hedw.) P. Beauv. ALG(1), MOR(1, 73).
- Hedwigia ciliata* (Hedw.) P. Beauv. var. *leucophaea* Bruch, Schimp. & W.Gümbel ALG(1), TUN(1).
- Hedwigia ciliata* (Hedw.) P. Beauv. var. *viridis* Bruch, Schimp. & W.Gümbel ALG(1).
- Herzogiella seligeri* (Brid.) Z.Iwats. ALG(1).
- Homalia lusitanica* Schimp. ALG(1, 38, 46), MOR(1), TUN(1).
- Homalia trichomanoides* (Hedw.) Brid. ALG(1, 38, 67).
- Homalothecium algerianum* Besch. = *Homalothecium philippeanum* (Spruce) Bruch, Schimp. & W.Gümbel (Hofmann, 1998)
- Homalothecium aureum* (Spruce) H.Rob. ALG(1, 137), LBY(93, 119), MOR(1, 138), TUN(1, 19).
- Homalothecium lutescens* (Hedw.) H.Rob. ALG(1, 38), MOR(1).
- Homalothecium philippeanum* (Spruce) Bruch, Schimp. & W.Gümbel ALG(1, 8, 38, 68, 137), LBY(119), MOR(1), TUN(1).
- Homalothecium philippeanum* (Spruce) Bruch, Schimp. & W.Gümbel var. *kabylica* Trab. ex Jelenc *nom. inval. descr. gall.* ALG(1).
- Homalothecium philippeanum* (Spruce) Bruch, Schimp. & W.Gümbel var. *maroccanum* Thér. & Trab. MOR(1, 75).
- Homalothecium sericeum* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1, 2, 38, 55, 68), LBY(93, 119), MOR(1, 38, 67, 73), SPA(1), TUN(1, 137).
- Homalothecium sericeum* (Hedw.) Bruch, Schimp. & W.Gümbel var. *tunetanum* Besch. in Pat. = *Homalothecium sericeum* (Hedw.) Bruch, Schimp. & W.Gümbel (Hofmann, 1998)
- Homalothecium sericeum* (Hedw.) Bruch, Schimp. & W.Gümbel fo. *gracilis* Thér. ex Jelenc, Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord, 46: 118-119. 1955 *nom. nud.* (*) MOR(67).
- Hookeria lucens* (Hedw.) Sm. TUN(1).
- Hydrogonium ehrenbergii* (Lorentz) A.Jaeger = *Barbula bolleana* (Müll.Hal.) Broth. (Frahm *et al.*, 1996)
- Hygroamblystegium fluviatile* (Hedw.) Loeske = *Amblystegium fluviatile* (Hedw.) Bruch, Schimp. & W.Gümbel
- Hygroamblystegium irriguum* (Hook. & Wilson) Loeske = *Amblystegium tenax* (Hedw.) C.E.O.Jensen
- Hylocomium brevirostre* (Brid.) Bruch, Schimp. & W.Gümbel ALG(1).
- Hylocomium proliferum* (Brid.) Lindb. = *Hylocomium splendens* (Hedw.) Bruch, Schimp. & W.Gümbel
- Hylocomium splendens* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), MOR(1).
- Hymenostomum laxirete* (Broth.) Broth.
- The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.
- Hymenostomum microstomum* (Hedw.) R.Br. in Nees & Hornsch. = *Weissia microstoma* (Hedw.) Müll.Hal.
- Hymenostomum subrostellatum* Schimp. ex Besch. ALG(1). A new combination seems to be necessary for this taxon. If valid, it should be related to the genus *Weissia* Hedw.
- Hymenostomum tortile* (Schwägr.) Bruch, Schimp. & W.Gümbel = *Weissia condensa* (Voit) Lindb.

- Hymenostomum tortile* (Schwägr.) Bruch, Schimp. & W.Gümbel var. *tunetana* Besch. TUN(1).
A new combination seems to be necessary for this taxon. If valid, it should be related to *Weissia condensa* (Voit) Lindb.
Hymenostylium curvirostre Mitt. = *Hymenostylium recurvirostrum* (Hedw.) Dixon
Hymenostylium curvirostre Mitt. var. *scabrum* (Lindb.) Limpr. = *Hymenostylium recurvirostrum* (Hedw.) Dixon
Hymenostylium recurvirostre (Hedw.) Dixon = *Hymenostylium recurvirostrum* (Hedw.) Dixon
Hymenostylium recurvirostrum (Hedw.) Dixon ALG(1), CHA(106), MOR(1, 36, 38).
Hymenostylium recurvirostrum (Hedw.) Dixon var. *cataractarum* (Schimp.) Podp. MOR(36).
Hyophila latitexta J.Froehl. ex Imam & Ghabbour, Botaniska Notiser, 125: 521. 1972 *nom. nud.* (*) EGY(31).
Hyophila pampanini Zodda LBY(91).
Hyophila perpusilla Thér. & Trab. MOR(1).
Hypnum andoi A.J.E.Smith
The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
Hypnum cupressiforme Hedw. (Smith, 1997) ALG(1, 38, 55), MOR(1, 38, 67, 73, 87), TUN(1, 19, 38).
Hypnum cupressiforme Hedw. var. *brevisetum* Schimp. = *Hypnum cupressiforme* Hedw.
Hypnum cupressiforme Hedw. var. *elatum* Bruch, Schimp. & W.Gümbel = *Hypnum lacunosum* (Brid.) Hoffm. ex Brid.
Hypnum cupressiforme Hedw. var. *ericetorum* Bruch, Schimp. & W.Gümbel = *Hypnum jutlandicum* Holmen & E.Warncke
Hypnum cupressiforme Hedw. var. *filiforme* Brid. = *Hypnum cupressiforme* Hedw. (Smith, 1997)
Hypnum cupressiforme Hedw. var. *imbricatum* Boulay = *Hypnum lacunosum* (Brid.) Hoffm. ex Brid.
Hypnum cupressiforme Hedw. var. *imponens* (Hedw.) Guim. = *Hypnum imponens* Hedw.
Hypnum cupressiforme Hedw. var. *subjulaceum* Mol. = *Hypnum cupressiforme* Hedw.
Hypnum cupressiforme Hedw. var. *tectorum* Brid. = *Hypnum lacunosum* (Brid.) Hoffm. ex Brid. var. *tectorum* (Brid.) J.P.Frahm
Hypnum cupressiforme Hedw. var. *uncinatum* Boulay = *Hypnum uncinatum* Jur.
Hypnum cyrenaicum Müll.Hal. ex E.Durand & Barratte, Flora Libycae Prodromus: 283. 1910 *nom. nud.* (*) LBY(109, 110, 119).
Hypnum deflexifolium Solms = *Scorpiurium deflexifolium* (Solms) M.Fleisch. & Loeske
Hypnum imponens Hedw. North Africa(87), ALG(38).
Hypnum jutlandicum Holmen & E.Warncke North Africa(87), ALG(1, 2, 38).
Hypnum klunzingeri Müll.Hal. ex Klunzinger, Zeitschrift der Gesellschaft für Erdkunde zu Berlin 13: 462. 1878 *nom. nud.* (*) EGY(97).
Hypnum lacunosum (Brid.) Hoffm. ex Brid. ALG(1, 38, 87).
Hypnum lacunosum (Brid.) Hoffm. ex Brid. var. *tectorum* (Brid.) J.P.Frahm LBY(119), MOR(1), TUN(1).
Hypnum pallescens (Hedw.) P. Beauv. MOR(1).
Hypnum uncinatum Jur. ALG(2, 38), MOR(1, 87), TUN(1).
Hypnum vaucheri Lesq. MOR(38).
Indusiella andersonii Delgad. = *Indusiella thianschanica* Broth. & Müll.Hal. (Murray, 1984)
Indusiella thianschanica Broth. & Müll.Hal. CHA(102).
Isopterygiopsis pulchella (Hedw.) Z.Iwats. ALG(1), TUN(1).
Isopterygiopsis pulchella (Hedw.) Z.Iwats. var. *nitidula* (Wahlenb.) Düll.
The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
Isopterygium depressum (Brid.) Mitt. in Lindb. = *Taxiphyllum wissgrillii* (Garov.) Wijk & Margad.
Isopterygium pulchellum (Hedw.) A.Jaeger = *Isopterygiopsis pulchella* (Hedw.) Z.Iwats.
Isothecium alopecuroides (Dubois) Isov. ALG(1, 38), MOR(1).
Isothecium maroccanum Thér. & Meyl. MOR(1, 73).
Isothecium myosuroides Brid. ALG(1), MOR(1, 39, 57).
Isothecium viviparum Lindb. = *Isothecium alopecuroides* (Dubois) Isov.
Isothecium viviparum Lindb. var. *gracilius* (Besch.) Jelenc = *Isothecium alopecuroides* (Dubois) Isov.
Leptobarbula berica (De Not.) Schimp. MOR(1, 3), TUN(1, 3).
Leptobryum pyriforme (Hedw.) Wilson ALG(1), CHA(1, 100, 101, 107), EGY(23, 25, 31), MOR(1).
Leptodictyum riparium (Hedw.) Warnst. = *Amblystegium riparium* (Hedw.) Bruch, Schimp. & W.Gümbel
Leptodon smithii (Hedw.) F.Weber & D.Mohr ALG(1, 2, 38, 68), LBY(93, 119), MOR(1, 38, 73), TUN(1).
Leptodon smithii (Hedw.) F.Weber & D.Mohr var. *filescens* Renaud in Jelenc *nom. nud.* ALG(1), LBY(119).
Lescuraea mutabilis (Brid.) Lindb. ex I.Hagen ALG(1).
Lescuraea striata (Schwägr.) Bruch, Schimp. & W.Gümbel = *Lescuraea mutabilis* (Brid.) Lindb. ex I.Hagen
Leskea polycarpa Hedw. ALG(1).
Leskea rupestris Berggr. = *Pseudoleskeella rupestris* (Berggr.) Hedenäs & L. Söderström (Hedenäs & Söderström, 1991)
Leucobryum glaucum (Hedw.) Ångstr.
The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
Leucodon sciuroides (Hedw.) Schwägr. ALG(1, 2, 38, 68), MOR(1, 73), TUN(1).

- Leucodon sciuroides* (Hedw.) Schwägr. var. *morensis* (Schwägr.) De Not. ALG(1, 38), MOR(1, 73), TUN(1).
- Loeskeobryum brevirostre* (Brid.) M.Fleisch. in Broth. = *Hylocomium brevirostre* (Brid.) Bruch, Schimp. & W.Gümbel
- Maireola atlantica* Thér. & Trab. MOR(1, 38, 67).
- Merceya ligulata* (Spruce) Schimp. = *Scopelophila ligulata* (Spruce) Spruce
- Metaneckera menziesii* (Hook.) Steere ALG(1), MOR(1, 38, 73), TUN(19).
- Micropoma niloticum* (Delile) Lindb. in Broth. = *Physcomitrium niloticum* (Delile) Müll.Hal. (Fife, 1985)
- Mielichhoferia mielichhoferiana* (Funck) Loeske MOR(75).
- Mielichhoferia nitida* Nees & Hornsch. = *Mielichhoferia mielichhoferiana* (Funck) Loeske
- Mniobryum albicans* (Wahlenb.) Limpr. = *Pohlia wahlenbergii* (F.Weber & D.Mohr) A.L.Andrews in Grout
- Mniobryum carneum* (F.Weber & D.Mohr) Limpr. = *Pohlia melanodon* (Brid.) A.J.Shaw
- Mniobryum carneum* (F.Weber & D.Mohr) Limpr. fo. *integrifolia* P. de la Varde (*) MOR(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Pohlia melanodon* (Brid.) A.J.Shaw
- Mniobryum delicatulum* (Hedw.) Dixon = *Pohlia melanodon* (Brid.) A.J.Shaw
- Mnium affine* Blandow = *Plagiomnium affine* (Blandow) T.J.Kop.
- Mnium affine* Blandow var. *elatum* Bruch, Schimp. & W.Gümbel = *Plagiomnium elatum* (Bruch & Schimp.) T.J.Kop.
- Mnium cuspidatum* Hedw. = *Plagiomnium cuspidatum* (Hedw.) T.J.Kop.
- Mnium hornum* Hedw. ALG(1), TUN(1, 38).
- Mnium marginatum* (Dicks.) P. Beauv. ALG(1, 38), MOR(1), TUN(1).
- Mnium marginatum* (Dicks.) P. Beauv. var. *aristatum* Thér. & Trab. = *Mnium marginatum* (Dicks.) P. Beauv. (Koponen, 1980)
- Mnium orthorrhynchum* Bruch, Schimp. & W.Gümbel = *Mnium thomsonii* Schimp.
- Mnium punctatum* Hedw. = *Rhizomnium punctatum* (Hedw.) T.J.Kop.
- Mnium punctatum* Hedw. fo. *brevinervium* Jelenc, Bulletin de la Societé d'Histoire Naturelle de l'Afrique du Nord 45: 75. 1954 (*) TUN(38).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Rhizomnium punctatum* (Hedw.) T.J.Kop.
- Mnium rostratum* Schrad. = *Plagiomnium rostratum* (Schrad.) T.J.Kop.
- Mnium seligeri* Jur. = *Plagiomnium elatum* (Bruch & Schimp.) T.J. Kop.
- Mnium stellare* Hedw. ALG(1, 38), MOR(1).
- Mnium thomsonii* Schimp. MOR(1).
- Mnium undulatum* Hedw. = *Plagiomnium undulatum* (Hedw.) T.J.Kop.
- Mnium undulatum* Hedw. var. *kabylicum* Trab. in Jelenc *nom. inv. descr. gall.* ALG(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Plagiomnium undulatum* (Hedw.) T.J.Kop.
- Molendoa hornschuchiana* (Hook.) Lindb. ex Limpr. MOR(1).
- Molendoa sendtneriana* (Bruch, Schimp. & W.Gümbel) Limpr.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Myurella tenerima* (Brid.) Lindb. ALG(1).
- Neckera complanata* (Hedw.) Huebener ALG(1), MOR(1), TUN(1).
- Neckera complanata* (Hedw.) Huebener fo. *secunda* Grav. in Boulay SPA(1).
- Neckera crispa* Hedw. North Africa(38, 46).
- Neckera pennata* Hedw.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Neckera pumila* Hedw. ALG(1, 46), MOR(46, 73).
- Neckera turgida* Jur. = *Metaneckera menziesii* (Hook.) Steere
- Neckeradelphus menziesii* (Hook.) Steere = *Metaneckera menziesii* (Hook.) Steere
- Oncophorus virens* (Hedw.) Brid. MOR(1, 38, 67).
- Oncophorus virens* (Hedw.) Brid. fo. *compactus* Limpr., Die Laubmoose Deutschlands, Österreichs und der Schweiz, Part I: 310. 1890 (*) MOR(1).
- Orthodicranum strictum* Broth. = *Dicranum tauricum* Sappegin
- Orthothecium durieui* (Mont.) Besch. = *Rhynchostegiella durieui* (Mont.) P.Allorge & V.Allorge
- Orthothecium intricatum* (Hartm.) Bruch, Schimp. & W.Gümbel North Africa(1), ALG(38, 67).
- Orthotrichum acuminatum* H.Philib. ALG(1), MOR(1, 38, 67, 117).
- Orthotrichum affine* Brid. ALG(1, 2, 38, 68), MOR(1, 67, 73).
- Orthotrichum affine* Brid. var. *neglectum* (Venturi) Venturi in Husn. ALG(1), MOR(1).
- Orthotrichum affine* Brid. var. *typicum* Venturi = *Orthotrichum affine* Brid.
- Orthotrichum anomalum* Hedw. ALG(1, 8), MOR(1).
- Orthotrichum anomalum* Hedw. var. *algeriense* Thér. & Trab. ALG(1).
- Orthotrichum anomalum* Hedw. var. *commune* Venturi in Husn. = *Orthotrichum anomalum* Hedw.
- Orthotrichum anomalum* Hedw. var. *saxatile* Milde ALG(1, 2), MOR(1, 73).

- Orthotrichum cupulatum* Brid. ALG(1, 2, 38), MOR(1, 67), TUN(1).
- Orthotrichum cupulatum* Brid. var. *commune* Venturi in Husn. = *Orthotrichum cupulatum* Brid. fo. *commune* (Venturi in Husn.) Podp.
- Orthotrichum cupulatum* Brid. var. *riparium* Huebener ALG(1, 38, 67).
- Orthotrichum cupulatum* Brid. var. *sardagnanum* (Venturi) Venturi ALG(1), MOR(1).
- Orthotrichum cupulatum* Brid. fo. *commune* (Venturi in Husn.) Podp. ALG(1), MOR(1).
- Orthotrichum diaphanum* Brid. ALG(1, 2, 38), LBY(119), MOR(1, 38, 68).
- Orthotrichum fastigiatum* Brid. = *Orthotrichum affine* Brid.
- Orthotrichum ibericum* Lara & Mazimpaka MOR(28).
- Orthotrichum letourneuxii* Besch. ALG(1).
- According to Lewinsky (1993), it is a doubtful species because the type cannot be located and from the protologue it is not possible to conclude whether it is an *Orthotrichum* Hedw. or not.
- Orthotrichum lewinskyae* Lara, Garilleti & Mazimpaka MOR(69).
- Orthotrichum lyellii* Hook. & Taylor ALG(1, 38), MOR(1, 38, 67, 73), TUN(1).
- Orthotrichum macrocephalum* Lara, Garilleti & Mazimpaka MOR(28).
- Orthotrichum nudum* Dicks. = *Orthotrichum cupulatum* Brid. var. *riparium* Huebener
- Orthotrichum patens* Bruch ex Brid. ALG(1).
- Orthotrichum pumilum* Sw. ALG(1), MOR(1).
- Orthotrichum pumilum* Sw. var. *fallax* (Bruch) J.Kickx f. = *Orthotrichum pumilum* Sw.
- Orthotrichum pumilum* Sw. var. *molle* Venturi in Husn. MOR(1).
- Orthotrichum rupestre* Schleich. ex Schwägr. ALG(1, 8, 38), MOR(1, 38, 67, 73).
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *aetnense* (De Not.) Venturi in Husn. ALG(1).
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *franzonianum* (De Not.) Venturi in Husn. ALG(1), MOR(38).
- Orthotrichum rupestre* Schleich. ex Schwägr. var. *sturmii* (Hoppe & Hornsch.) Jur. ALG(1), MOR(1), TUN(1).
- Orthotrichum sardagnanum* Venturi = *Orthotrichum cupulatum* Brid. var. *sardagnanum* (Venturi) Venturi
- Orthotrichum saxatile* Brid. = *Orthotrichum anomalum* Hedw. var. *saxatile* Milde
- Orthotrichum schimperi* Hammar = *Orthotrichum pumilum* Sw.
- Orthotrichum speciosum* Nees ALG(1, 8).
- Orthotrichum stramineum* Hornsch. ex Brid. ALG(1).
- Orthotrichum stramineum* Hornsch. ex Brid. var. *patens* (Brid.) Venturi = *Orthotrichum patens* Bruch ex Brid.
- Orthotrichum striatum* Hedw. ALG(1, 38), MOR(38), TUN(1).
- Orthotrichum tenellum* Bruch ex Brid. ALG(1, 38), MOR(1).
- Orthotrichum tortidontium* Lara, Garilleti & Mazimpaka MOR(49).
- Orthotrichum urnigerum* Myrin ALG(1), MOR(1).
- Oxyrhynchium pumilum* (Wilson) Loeske = *Eurhynchium pumilum* (Wilson) Schimp.
- Oxyrhynchium swartzii* (Turner) Warnst. = *Eurhynchium hians* (Hedw.) Sande Lac.
- Oxyrhynchium swartzii* (Turner) Warnst. var. *rigidum* (Boulay) Barkman = *Eurhynchium hians* (Hedw.) Sande Lac. var. *rigidum* (Boulay) Thér.
- Oxyrhynchium swartzii* (Turn.) Warnst. var. *vulgare* (Boulay) Jelenc TUN(1).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Eurhynchium hians* (Hedw.) Sande Lac.
- Palustriella commutata* (Hedw.) Ochyra ALG(1, 38), MOR(1, 36, 38, 73).
- Palustriella falcata* (Brid.) Hedenas ALG(1, 38), MOR(1, 36).
- Palustriella decipiens* (De Not.) Ochyra MOR(1).
- Phascum acaulon* With. = *Phascum cuspidatum* Hedw.
- Phascum curvicolle* Hedw. ALG(1), TUN(1, 8).
- Phascum cuspidatum* Hedw. ALG(1, 38), MOR(1, 138).
- Phascum cuspidatum* Hedw. var. *piliferum* (Hedw.) Hook. & Taylor ALG(1), LBY(119), MOR(1), TUN(1, 55).
- Phascum cuspidatum* Hedw. var. *retortifolium* J.Guerra & Ros ALG(30).
- Phascum floerkeanum* F.Weber & D.Mohr. ALG(1).
- Phascum piliferum* Hedw. = *Phascum cuspidatum* Hedw. var. *piliferum* (Hedw.) Hook. & Taylor
- Phascum piliferum* Hedw. var. *gemmaeforme* Ness & Hornsch. = *Phascum cuspidatum* Hedw. var. *piliferum* (Hedw.) Hook. & Taylor
- Phascum piliferum* Hedw. var. *rufescens* Ness & Hornsch. = *Phascum cuspidatum* Hedw. var. *piliferum* (Hedw.) Hook. & Taylor
- Phascum piptocarpum* Durieu & Mont. ALG(1, 30).
- Philonotis alpicola* Limpr. = *Philonotis tomentella* Molk.
- Philonotis arnellii* Husn. ALG(1, 38), TUN(1).
- Philonotis caespitosa* Jur. MOR(36, 73).
- Philonotis caespitosa* Jur. var. *adpressa* (Fergusson) Limpr. MOR(38, 67).
- Philonotis calcarea* (Bruch & Schimp.) Schimp. ALG(1, 38), MOR(1, 36, 38, 73), TUN(1).
- Philonotis capillaris* Lindb. = *Philonotis arnellii* Husn.
- Philonotis dregeana* (Müll.Hal.) A.Jaeger CHA(100).
- Philonotis evanidinervis* M.Fleisch. EGY(25).
- Philonotis fontana* (Hedw.) Brid. ALG(1, 38), MOR(1, 38, 67, 68, 73), TUN(1, 38).
- Philonotis fontana* (Hedw.) Brid. var. *adpressa* (Fergusson) Dixon = *Philonotis caespitosa* Jur. var. *adpressa* (Fergusson) Limpr.
- Philonotis fontana* (Hedw.) Brid. var. *alpina* (Brid.) Brid. MOR(1).
- Philonotis glabriuscula* Kindb. in Macoun = pp. *Philonotis fontana* (Hedw.) Brid. et pp. *Philonotis marchica* (Hedw.) Brid. EGY(90).

Philonotis hastata (Duby) Wijk & Margad. CHA(1, 101, 107), EGY(24, 25).

Philonotis laxissima Mitt. = *Philonotis hastata* (Duby) Wijk & Margad.

Philonotis marchica (Hedw.) Brid. ALG(1, 38), MLI(1), MOR(1).

Philonotis marchica (Hedw.) Brid. fo. *rivularis* (Warnst.) Mönk. EGY(23, 24).

Philonotis obtusata Müll.Hal. ex Renaud & Cardot = *Philonotis hastata* (Duby) Wijk & Margad.

Philonotis rigida Brid. ALG(1), MOR(1).

Philonotis seriata Mitt. MOR(1).

Philonotis seriata Mitt. var. *adpressa* (Fergusson) Bryhn = *Philonotis caespitosa* Jur. var. *adpressa* (Fergusson) Limpr.

Philonotis tomentella Molk. ALG(1), MOR(38, 39, 57).

Philonotula nilotica Müll.Hal. (*) = *Bartramia nilotica* Müll.Hal. nom. nud.

Physcomitrium acuminatum (Schleich.) Bruch, Schimp. & W.Gümbel = *Physcomitrium eurystomum* Sendtn.

Physcomitrium eurystomum Sendtn. EGY(31).

Physcomitrium eurystomum Sendtn. fo. *acuminatum* (Bruch, Schimp. & W.Gümbel) Loeske.

The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this taxon was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.

Physcomitrium longicolle Trab. ALG(1).

Physcomitrium maroccanum Meyl. = *Entosthodon hungaricus* (Boros) Loeske (Cano *et al.*, 1999)

Physcomitrium niloticum (Delile) Müll.Hal. EGY(22, 24, 25, 31, 60, 88, 89, 90, 98, 128).

Physcomitrium pyriforme (Hedw.) Brid. ALG(1), EGY(23, 25, 31), MOR(1).

Physcomitrium sesostris Lorentz = *Physcomitrium niloticum* (Delile) Müll.Hal.

Plagiobryum zierii (Hedw.) Lindb. MOR(1).

Plagiomnium affine (Blandow) T.J.Kop. ALG(1, 38), MOR(1, 73).

Plagiomnium cuspidatum (Hedw.) T.J.Kop. ALG(1), MOR(1), TUN(1).

Plagiomnium elatum (Bruch & Schimp.) T.J.Kop. ALG(1), MOR(1, 67, 73).

Plagiomnium medium (Bruch, Schimp. & W.Gümbel) T.J.Kop. MOR(65).

Plagiomnium rostratum (Schrad.) T.J.Kop. ALG(1, 38), MOR(1, 38).

Plagiomnium undulatum (Hedw.) T.J.Kop. ALG(1, 2, 38), MOR(1, 73), TUN(1).

Plagiothecium curvifolium Schleich. ex Limpr.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the

literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Plagiothecium denticulatum (Hedw.) Bruch, Schimp. & W.Gümbel.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Plagiothecium nemorale (Mitt.) A.Jaeger. ALG(1), TUN(1).

Plagiothecium ruthei Limpr.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Plagiothecium succulentum (Wilson) Lindb. TUN(38).

Plagiothecium sylvaticum Bruch, Schimp. & W.Gümbel in Lindb. = *Plagiothecium nemorale* (Mitt.) A.Jaeger

Plagiothecium sylvaticum Bruch, Schimp. & W.Gümbel in Lindb. var. *orthocladium* (Bruch, Schimp. & W.Gümbel) Schimp. = *Plagiothecium nemorale* (Mitt.) A.Jaeger.

Plasteurhynchium meridionale (Bruch, Schimp. & W.Gümbel) M.Fleisch. = *Eurhynchium meridionale* (Bruch, Schimp. & W.Gümbel) De Not.

Plasteurhynchium striatulum (Spruce) M.Fleisch. in Broth. = *Eurhynchium striatulum* (Spruce) Bruch, Schimp. & W.Gümbel

Platygyrium repens (Brid.) Bruch, Schimp. & W. Gümbel ALG(1).

Platyhypnidium rusciforme M.Fleisch. = *Rhynchostegium riparioides* (Hedw.) Cardot

Platyhypnidium rusciforme M.Fleisch. var. *atlanticum* (Brid.) Guim. = *Rhynchostegium riparioides* (Hedw.) Cardot fo. *atlanticum* (Brid.) Podp.

Platyhypnidium rusciforme M.Fleisch. var. *inundatum* (Brid.) Riehm. = *Rhynchostegium riparioides* (Hedw.) Cardot fo. *inundatum* (Brid.) Podp.

Platyhypnidium rusciforme M.Fleisch. var. *longifolium* Trab. in Jelenc nom. inval. descr. gall. ALG(1).

A new combination seems to be necessary for this taxon. If valid, it should be related to *Rhynchostegium riparioides* (Hedw.) Cardot

Platyhypnidium rusciforme M.Fleisch. var. *prolixum* (Brid.) Riehm. = *Rhynchostegium riparioides* (Hedw.) Cardot fo. *prolixum* (Brid.) Podp.

Platyhypnidium rusciforme M.Fleisch. var. *squarrosus* (Boulay) Latzel = *Rhynchostegium riparioides* (Hedw.) Cardot fo. *squarrosus* (Boulay) Podp.

Platyhypnidium rusciforme M.Fleisch. fo. *tophacea* Besch., Catalogue des mousses observées en Algérie: 39. 1882 nom. nud. (*) ALG(1).

A new combination seems to be necessary for this taxon. If valid, it should be related to *Rhynchostegium riparioides* (Hedw.) Cardot

Pleuroidium acuminatum Lindb.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Pleuroidium alternifolium (Hedw.) Brid. = *Archidium alternifolium* (Hedw.) Schimp.

Pleuroidium subulatum (Hedw.) Rabenh. ALG(1, 2, 38), EGY(23), MOR(1, 55, 73, 122), TUN(1).

Pleurochaete squarrosa (Brid.) Lindb. ALG(1, 2, 8, 38, 55, 86), LBY(91, 119), MOR(1, 73), SPA(1), TUN(1).

Pleurochaete squarrosa (Brid.) Lindb. var. *brevifolia* Thér. & Trab. = *Pleurochaete squarrosa* (Brid.) Lindb. var. *maroccana* Jelenc

Pleurochaete squarrosa (Brid.) Lindb. var. *maroccana* Jelenc MOR(1).

Pleurozium schreberi (Brid.) Mitt. ALG(38).

Pogonatum aloides (Hedw.) P. Beauv. ALG(1, 2, 38), MOR(1), TUN(1).

Pogonatum aloides (Hedw.) P. Beauv. var. *defluens* Brid. = *Pogonatum aloides* (Hedw.) P. Beauv. (Hyvönen, 1989)

Pogonatum aloides (Hedw.) P. Beauv. var. *minimum* (Crome) Molk. = *Pogonatum aloides* (Hedw.) P. Beauv. (Hyvönen, 1989)

Pogonatum nanum (Hedw.) P. Beauv. ALG(1, 38), TUN(1).

Pogonatum subrotundum (Brid.) Lindb. in Hartm. = *Pogonatum nanum* (Hedw.) P. Beauv.

Pogonatum urnigerum (Hedw.) P. Beauv. ALG(1).

Pohlia annotina (Hedw.) Lindb. ALG(1).

Pohlia annotina (Hedw.) Lindb. var. *decipiens* Loeske CHA(1, 101, 107).

Pohlia atropurpurea (Wahlenb.) Lindb. LBY(104).

Pohlia camptotrachela (Renauld & Cardot) Broth.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Pohlia cruda (Hedw.) Lindb. ALG(1), MOR(1, 36, 38, 67).

Pohlia elongata Hedw. ALG(1).

Pohlia korbiana (Müll.Hal.) Wijk & Margad. LBY(60).

Pohlia melanodon (Brid.) A.J.Shaw ALG(1), CHA(100), EGY(25, 98), LBY(91), MOR(1), TUN(1).

Pohlia nutans (Hedw.) Lindb. EGY(23), MOR(1, 38, 67).

Pohlia nutans (Hedw.) Lindb. var. *decipiens* Loeske in Fam. CHA(1).

Pohlia wahlenbergii (F.Weber & D.Mohr) A.L.Andrews ALG(1), MOR(1).

Polytrichum alpinum Hedw. ALG(1).

Polytrichum attenuatum Brid. = *Polytrichum formosum* Hedw.

Polytrichum commune Hedw. MOR(57).

Polytrichum commune Hedw. var. *humile* Sw. MOR(39).

Polytrichum commune Hedw. var. *perigoniale* (Michx.) Hampe

The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Polytrichum formosum Hedw. ALG(1).

Polytrichum juniperinum Hedw. ALG(1, 38), MOR(1, 38, 39), TUN(1).

Polytrichum piliferum Hedw. ALG(1).

Polytrichum strictum Brid. ALG(2, 38).

Pottia apertii Warnst. ALG(1, 38, 67).

According to Ros *et al.*, (1996) it is a doubtful species because the type has been destroyed. It can only be said that it belongs to the *Pottia starckeana* agg. (Hedw.) Müll.Hal.

Pottia commutata Limpr. = *Pottia davalliana* (Sm.) C.E.O.Jensen (Ros *et al.*, 1996)

Pottia crinita Bruch, Schimp. & W.Gümbel ALG(1), MOR(1).

Pottia davalliana (Sm.) C.E.O.Jensen ALG(1, 38, 55), LBY(91, 119), MOR(1, 38, 122), TUN(1).

Pottia intermedia (Turner) Fűrnr. ALG(1), MOR(1), SPA(1).

Pottia intermedia (Turner) Fűrnr. var. *littoralis* (Mitt.) Corb. MOR(1).

Pottia lanceolata (Hedw.) Müll.Hal. ALG(1, 38, 68), MOR(1), SPA(1).

Pottia lanceolata (Hedw.) Müll.Hal. var. *albescens* Corb. in Jelenc = *Pottia lanceolata* (Hedw.) Müll.Hal.

Pottia lanceolata (Hedw.) Müll.Hal. var. *angustata* (Bruch, Schimp. & W.Gümbel) Müll.Hal. = *Pottia lanceolata* (Hedw.) Müll.Hal.

Pottia lanceolata (Hedw.) Müll.Hal. var. *gasilieni* (Venturi) Corb. = *Tortula atrovirens* (Sm.) Lindb. var. *gasilieni* (Venturi) Limpr.

Pottia lanceolata (Hedw.) Müll.Hal. var. *lejolisii* Corb. ALG(1).

Pottia minutula (Schwägr.) Hampe = *Pottia davalliana* (Sm.) C.E.O.Jensen

Pottia mutica Venturi in De Not. = *Pottia starckeana* agg. (Hedw.) Müll.Hal. (Ros *et al.*, 1996)

Pottia mutica Venturi in De Not. var. *gymnostoma* Corb. This taxon was not studied by Ros *et al.* (1996), but probably it should be also considered as belonging to the *Pottia starckeana* agg. (Hedw.) Müll.Hal.

Pottia mutica Venturi var. *leucodonta* Corb.

This taxon was not studied by Ros *et al.* (1996), but probably it should be also considered as belonging to the *Pottia starckeana* agg. (Hedw.) Müll.Hal.

Pottia pallida Lindb. EGY(31, 98), TUN(1).

Pottia pallida Lindb. var. *longicuspis* Warnst. = *Pottia pallida* Lindb.

Pottia recta (With.) Mitt. ALG(1, 38, 67), MOR(1).

Pottia recurvifolia Warnst. ALG(38, 67).

According to Ros *et al.*, (1996) it is a doubtful species because the type has been destroyed. It can only be said that it belongs to the *Pottia starckeana* agg. (Hedw.) Müll.Hal.

- Pottia rufescens* (Schultz) Warnst. var. *conica* (Schwägr.) Giacom. = *Pottia davalliana* (Sm.) C.E.O.Jensen (Ros *et al.*, 1996)
- Pottia starckeana* (Hedw.) Müll.Hal. ALG(1, 2, 38, 55), EGY(31), LBY(91, 95, 111, 119), MOR(1, 38, 67, 73, 122), SPA(55), TUN(1, 8).
- Pottia starckeana* agg. (Hedw.) Müll.Hal. (Ros *et al.*, 1996) ALG(1), EGY(31), MOR(1, 122), TUN(1, 8, 38, 67).
- Pottia starckeana* (Hedw.) Müll.Hal. ssp. *minutula* (Schwägr.) D.F.Chamb. = *Pottia davalliana* (Sm.) C.E.O.Jensen
- Pottia starckeana* (Hedw.) Müll.Hal. var. *brachyoda* (Bruch, Schimp. & W.Gümbel) Müll.Hal. = *Pottia starckeana* (Hedw.) Müll.Hal. (Ros *et al.*, 1996)
- Pottia starckeana* (Hedw.) Müll.Hal. var. *lelostoma* Corb. in Corb. & Pit. = *Pottia starckeana* (Hedw.) Müll.-Hal. (Ros *et al.*, 1996)
- Pottia truncata* (Hedw.) Müll.Hal. ALG(1), MOR(1).
- Pottia truncata* (Hedw.) Müll.Hal. fo. *archidioides* (Paris) Besch. ALG(1).
- Pottia truncatula* (With.) Büse = *Pottia truncata* (Hedw.) Müll.Hal.
- Pottia truncatula* (With.) Büse var. *archidioides* Paris = *Pottia truncata* (Hedw.) Müll.Hal. fo. *archidioides* (Paris) Besch.
- Pottia truncatula* (With.) Büse fo. *major* Müll.Hal. (*) = *Pottia intermedia* (Turner) Fűrnr.
- Pottia truncatula* (With.) Büse fo. *minor* Müll.Hal. (*) = *Pottia truncata* (Hedw.) Müll. Hal.
- Pottia venusta* Jur. = *Pottia pallida* Lindb.
- Pottia wilsonii* (Hook.) Bruch, Schimp. & W.Gümbel ALG(38, 67), EGY(31), MOR(1).
- Pseudephemerum axillare* (Sm.) Hagen = *Pseudephemerum nitidum* (Hedw.) Reimers
- Pseudephemerum nitidum* (Hedw.) Reimers ALG(1), MOR(1).
- Pseudocrossidium hornschuchianum* (Schultz) R.H.Zander ALG(1, 55), EGY(31), LBY(115, 119), MOR(1, 55, 122), SPA(55), TUN(1, 55).
- Pseudocrossidium revolutum* (Brid.) R.H.Zander ALG(1, 8), LBY(93, 115, 119), MOR(1), TUN(1, 8).
- Pseudoleskea artariaei* Thér. MOR (73).
- Pseudoleskea filamentosa* (With.) C.E.O.Jensen = *Pseudoleskea incurvata* (Hedw.) Loeske
- Pseudoleskea incurvata* (Hedw.) Loeske MOR(1).
- Pseudoleskea perraldieri* Besch. ALG(1, 8).
- Pseudoleskeella catemulata* (Brid.) Kindb. ALG (38).
- Pseudoleskeella rupestris* (Berggr.) Hedenäs & L. Söderström ALG(1).
- Pseudoscleropodium purum* (Hedw.) M.Fleisch. = *Scleropodium purum* (Hedw.) Limpr.
- Pterigynandrum filiforme* Hedw. ALG(1, 8, 38), MOR(1, 38, 67, 73), TUN(1).
- Pterigynandrum filiforme* Hedw. var. *decipiens* (F.Web & D.Mohr) Limpr. = *Pterigynandrum filiforme* Hedw. var. *majus* (De Not.) De Not.
- Pterigynandrum filiforme* Hedw. var. *fileszens* (Boulay) Boulay = *Pterigynandrum filiforme* Hedw. fo. *fileszens* (Boulay) Limpr.
- Pterigynandrum filiforme* Hedw. var. *majus* (De Not.) De Not. ALG(1, 8, 38), MOR(38).
- Pterigynandrum filiforme* Hedw. var. *propaguliferum* Dism. in Jelenc *nom. nud.* MOR(1).
- Pterigynandrum filiforme* Hedw. fo. *fileszens* (Boulay) Limpr. ALG(1).
- Pterogonium gracile* (Hedw.) Sm. ALG(1, 2, 38, 55), MOR(1, 73), SPA(1), TUN(1).
- Pterogonium ornithopodioides* (F.Weber & D.Mohr) Lindb. = *Pterogonium gracile* (Hedw.) Sm.
- Pterygoneurum cavifolium* Jur. = *Pterygoneurum ovatum* (Hedw.) Dixon
- Pterygoneurum cavifolium* Jur. var. *perraldieri* (Besch.) Paris = *Pterygoneurum ovatum* (Hedw.) Dixon var. *perraldieri* (Besch.) Wijk & Margad.
- Pterygoneurum ovatum* (Hedw.) Dixon ALG(1, 55), MOR(1), TUN(1).
- Pterygoneurum ovatum* (Hedw.) Dixon var. *perraldieri* (Besch.) Wijk & Margad. ALG(1).
- Pterygoneurum sessile* (Brid.) Jur. ALG(1), TUN(1, 126).
- Pylaisaea polyantha* (Hedw.) Schimp. fo. *gracillima* Besch., Catalogue des mousses observées en Algérie: 34. 1882 *nom. nud.* (*) ALG(1).
- Pyramidula algeriensis* Chud. & Douin = *Pyramidula tetragona* (Brid.) Brid. (Brugués, Casas & Belmonte, 1998)
- Pyramidula tetragona* (Brid.) Brid. ALG(1), MOR(1, 67).
- Racomitrium aciculare* (Hedw.) Brid. ALG(1), TUN(1).
- Racomitrium canescens* (Hedw.) Brid. ALG(1).
- Racomitrium heterostichum* (Hedw.) Brid. ALG(1).
- Rhabdoweisia crenulata* (Mitt.) H.Jameson
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Rhabdoweisia crispata* (Dicks.) Lindb.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Rhizomnium punctatum* (Hedw.) T.J.Kop. ALG(1, 2, 38), MOR(1, 38, 67), TUN(1).
- Rhynchostegiella algeriana* (Schrad.) Warnst. = *Rhynchostegiella tenella* (Dicks.) Limpr.
- Rhynchostegiella algeriana* (Schrad.) Warnst. var. *meridionalis* (Boulay) Corb. = *Rhynchostegiella tenella* (Dicks.) Limpr. fo. *meridionalis* (Boulay) Podp.
- Rhynchostegiella curviseta* (Brid.) Limpr. ALG(1, 38), LBY(93, 119), MOR(1, 47), TUN(1).
- Rhynchostegiella curviseta* (Brid.) Limpr. var. *laeviseta* (W.E.Nicholson & Dixon) Podp. (Düll, 1986) ALG(1), MOR(1), TUN(1).
- Rhynchostegiella durieui* (Mont.) P.Allorge & V.Allorge ALG(1, 58), MOR(1, 58), TUN(1, 58).

- Rhynchostegiella letourneuxii* (Besch.) Broth. = *Rhynchostegiella curviseta* (Brid.) Limpr. var. *laeviseta* (W.E.Nicholson & Dixon) Podp.
- Rhynchostegiella litorea* (De Not.) Limpr. ALG(1, 2, 20, 38), LBY(93, 119), SPA(1), MOR(1).
- Rhynchostegiella maireana* Dixon & Thér. in Maire & Werner *nom. nud.* MOR(1).
- Rhynchostegiella teesdalei* (Bruch, Schimp. & W.Gümbel) Limpr. = *Rhynchostegiella teneriffae* (Mont.) Dirkse & Bouman (Dirkse & Bouman, 1995)
- Rhynchostegiella tenella* (Dicks.) Limpr. ALG(1, 2, 38, 55), MOR(1, 75), SPA(1).
- Rhynchostegiella tenella* (Dicks.) Limpr. var. *litorea* (De Not.) P.W.Richards & E.C.Wallace = *Rhynchostegiella litorea* (De Not.) Limpr. (Dirkse & Bouman, 1995)
- Rhynchostegiella tenella* (Dicks.) Limpr. fo. *meridionalis* (Boulay) Podp. ALG(1, 2, 38), MOR(1), TUN(1).
- Rhynchostegiella teneriffae* (Mont.) Dirkse & Bouman ALG(1), TUN(1).
- Rhynchostegium confertum* (Dicks.) Bruch, Schimp. & W.Gümbel ALG(1), LBY(119), MOR(1, 73), TUN(1).
- Rhynchostegium confertum* (Dicks.) Bruch, Schimp. & W.Gümbel var. *hercynicum* (Milde) A.Jaeger North Africa(38).
- Rhynchostegium confertum* (Dicks.) Bruch, Schimp. & W.Gümbel var. *latifolium* Renauld in Jelenc ALG(1).
- Rhynchostegium megapolitanum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel ALG(1, 2, 38, 55), MOR(1, 38, 67, 73), SPA(55), TUN(1).
- Rhynchostegium megapolitanum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel var. *hygrophyllum* Renauld in Jelenc *nom. inval. descr. gall.* ALG(1).
- Rhynchostegium megapolitanum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel var. *meridionale* Schimp. North Africa(1), ALG(1, 2, 38), MOR(1, 73), TUN(1).
- Rhynchostegium megapolitanum* (F.Weber & D.Mohr) Bruch, Schimp. & W.Gümbel fo. *julaceum* (Brizi) Latzel ALG(1).
- Rhynchostegium murale* (Hedw.) Bruch, Schimp. & W.Gümbel ALG(1), TUN(1).
- Rhynchostegium riparioides* (Hedw.) Cardot ALG(1, 38), LBY(93, 119), MOR(1), TUN(1).
- Rhynchostegium riparioides* (Hedw.) Cardot fo. *atlanticum* (Brid.) Podp. ALG(1), LBY(119).
- Rhynchostegium riparioides* (Hedw.) Cardot fo. *inundatum* (Brid.) Podp. ALG(1).
- Rhynchostegium riparioides* (Hedw.) Cardot fo. *prolixum* (With.) Podp. MOR(1).
- Rhynchostegium riparioides* (Hedw.) Cardot fo. *squarrosum* (Boulay) Podp. ALG(1).
- Rhytidiadelphus triquetrus* (Hedw.) Warnst. ALG(1).
- Rhytidium rugosum* (Hedw.) Kindb. MOR(1).
- Schistidium agassizi* Sull. & Lesq. ALG(1, 2, 38), MOR(38, 67).
- Schistidium alpicola* (Hedw.) Limpr. = *Schistidium agassizi* Sull. & Lesq.
- Schistidium anodon* (Bruch, Schimp. & W.Gümbel) Loeske = *Grimmia anodon* Bruch & Schimp.
- Schistidium apocarpum* (Hedw.) Bruch & Schimp. ALG(1, 2, 38), MOR(1, 12, 73), TUN(1).
- Schistidium apocarpum* (Hedw.) Bruch & Schimp. ssp. *confertum* (Funck) Loeske = *Schistidium confertum* (Funck) Bruch & Schimp.
- Schistidium apocarpum* (Hedw.) Bruch & Schimp. ssp. *pulvinatum* (Hedw.) Loeske. = *Schistidium flaccidum* (De Not.) Ochyra
- Schistidium apocarpum* (Hedw.) Bruch & Schimp. var. *auresiana* (Besch.) Jelenc ALG(1).
- Schistidium confertum* (Funck) Bruch & Schimp. (Blom, 1996) ALG(1, 2, 38), MOR(1), TUN(1).
- Schistidium flaccidum* (De Not.) Ochyra ALG(1, 12), MOR(73).
- Schistidium pulvinatum* (Hedw.) Brid. = *Schistidium flaccidum* (De Not.) Ochyra
- Schistidium rivulare* (Brid.) Podp. ssp. *latifolium* (J.E.Zetterst.) B.Bremer
- The presence of this taxon in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
- Schistidium singarense* (Schiffn.) Laz. MOR(9).
- Schistidium sphaericum* (Schimp.) G.Roth. = *Schistidium flaccidum* (De Not.) Ochyra
- Schistidium teretinerve* (Limpr.) Limpr. = *Grimmia teretineris* Limpr.
- Scleropodium illicebrum* Bruch, Schimp. & W.Gümbel = *Scleropodium touretii* (Brid.) L.F.Koch
- Scleropodium purum* (Hedw.) Limpr. ALG(1).
- Scleropodium touretii* (Brid.) L.F.Koch ALG(1, 2, 38, 55), MOR(1, 38, 55, 67, 73), SPA(55), TUN(1).
- Scleropodium touretii* (Brid.) L.F. Koch fo. *complanatum* (Thér.) Podp. ALG(68).
- Scopelophila ligulata* (Spruce) Spruce MOR(1).
- Scorpiurium circinatum* (Brid.) M.Fleisch. & Loeske ALG(1, 2, 38, 55), LBY(93, 115, 119), MOR(1, 55, 75), TUN(1).
- Scorpiurium deflexifolium* (Solms) M.Fleisch. & Loeske ALG(1, 38), CHA(101), MOR(1, 38), TUN(1, 71).
- Sematophyllum demissum* (Wilson) Mitt. ALG(1).
- Sematophyllum substrumosum* (Hampe) Britt. ALG(1), MOR(1), TUN(19).
- Semibarbula orientalis* (F.Weber) Wijk & Margad. = *Barbula indica* (Hook.) Spreng.
- Sphagnum acutifolium* Schrad. = *Sphagnum capillifolium* (Ehrh.) Hedw.
- Sphagnum auriculatum* Schimp. = *Sphagnum denticulatum* Brid.
- Sphagnum capillifolium* (L.) Hedw. TUN(71).
- Sphagnum contortum* Schultz ALG(38).
- Sphagnum crassycladum* Warnst. = *Sphagnum denticulatum* Brid.

Sphagnum cuspidatum Ehrh. ex Hoffm.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Sphagnum cymbifolium (Ehrh.) Hedw. = *Sphagnum palustre* L.

Sphagnum denticulatum Brid. ALG(1), MOR(1, 39, 57), TUN(1, 21, 71, 83).

Sphagnum laricinum (Wilson) Lindb. = *Sphagnum contortum* Schultz

Sphagnum obesum (Wilson) Warnst. = *Sphagnum denticulatum* Brid.

Sphagnum palustre L. ALG(1).

Sphagnum plumulosum Roell = *Sphagnum subnitens* Russow & Warnst.

Sphagnum plumulosum Roell var. *pallens* Warnst. = *Sphagnum subnitens* Russow & Warnst. var. *pallens* Warnst.

Sphagnum rufescens (Nees & Hornsch.) Warnst. = *Sphagnum denticulatum* Brid.

Sphagnum rufescens (Nees & Hornsch.) Warnst. var. *turgidum* (Müll.Hal.) Warnst. = *Sphagnum denticulatum* Brid.

Sphagnum subnitens Russow & Warnst. TUN(38).

Sphagnum subnitens Russow & Warnst. var. *pallens* Warnst. TUN(1).

Sphagnum subsecundum Nees ALG(1), TUN(1, 71, 80).

Sphagnum subsecundum Nees var. *obesum* (Wilson) Hérib. = *Sphagnum denticulatum* Brid.

Splachnobryum aquaticum Müll.Hal. CHA(101).

Stegonia mouretii (Corb.) Broth. MOR(1).

Stegonia mouretii (Corb.) Broth. var. *crinita* Corb. ex Jelenc TUN(38, 67).

Syntrichia caninervis Mitt. ALG(1, 48, 85).

According to Jelenc (1954), the citation by Jelenc (1955a) from Morocco should be adjudicated to Algeria instead of Morocco.

Syntrichia fragilis (Taylor) Ochyra ALG(32), MOR(1).

Syntrichia inermis (Brid.) Bruch in Huebener ALG(1, 8, 38), MOR(1, 38, 73), TUN(1).

The presence of this taxon in the African part of Egypt should be considered as doubtful. It has not been cited in the literature compiled for this paper, which exclude the Sinai Peninsula. According to El-Saadawi & Badawi (1977) it is distributed in Egypt, although it is not possible to know exactly if this species was cited previously from the Sinai Peninsula or from the rest of Egypt, since no localities are given in the Egyptian list.

Syntrichia intermedia Brid. ALG(1, 2, 8, 38), CHA(101), LBY(93, 119), MOR(1, 73), TUN(1, 8).

Syntrichia intermedia Brid. var. *calva* (Durieu & Sagot) Delogne ALG(38, 67), CHA(101), TUN(38, 67).

Syntrichia laevipila Brid. ALG(1, 38, 68), LBY(119), MOR(1, 38, 67), TUN(1).

Syntrichia laevipila Brid. var. *meridionalis* (Schimp.) Jur. ALG(1, 6), TUN(1, 6).

Syntrichia norvegica F.Weber MOR(1).

Syntrichia pagorum (Milde) J.J.Amann ALG(32).

Syntrichia papillosa (Wilson) Jur.

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.

Syntrichia princeps (De Not.) Mitt. ALG(1, 38, 48), MOR(1, 38).

Syntrichia ruralis (Hedw.) F.Weber & D.Mohr ALG(1, 38), CHA(101), MOR(1, 38, 67, 73, 138), TUN(1).

Syntrichia ruralis (Hedw.) F.Weber & D.Mohr var. *arenicola* (Braithw.) J.J.Amann ALG(1, 48), TUN(1).

Syntrichia ruralis (Hedw.) F.Weber & D.Mohr var. *hirsuta* (Venturi) Podp. MOR(79).

Syntrichia ruralis (Hedw.) F.Weber & D.Mohr var. *subpapillosissima* (Bizot & R.B.Pierrot) R.H.Zander ALG(8).

Syntrichia sinensis (Müll.Hal.) Ochyra TUN(1).

Syntrichia virescens (De Not.) Ochyra ALG(1), MOR(1, 73).

Systegium crispum (Hedw.) Schimp. = *Weissia longifolia* Mitt.

Taxiphyllum wissgrillii (Garov.) Wijk & Margad. TUN(1).

Tetrastichium fontanum (Mitt.) Cardot

Exclude. According to Jelenc (1955a), the specimen given under this name corresponds to *Vesicularia reimersiana* Bizot & P. de la Varde.

Thamnium alopecurum (Hedw.) Bruch, Schimp. & W.Gümbel = *Thamnobryum alopecurum* (Hedw.) Nieuwl.

Thamnium alopecurum (Hedw.) Bruch, Schimp. & W.Gümbel ssp. *mediterraneum* Bott. ALG(1, 38, 46).

A new combination seems to be necessary for this taxon. If valid, it should be related to *Thamnobryum alopecurum* (Hedw.) Nieuwl.

Thamnium alopecurum (Hedw.) Bruch, Schimp. & W.Gümbel var. *decipiens* Corb. ALG(1).

A new combination seems to be necessary for this taxon. If valid, it should be related to *Thamnobryum alopecurum* (Hedw.) Nieuwl.

Thamnium alopecurum (Hedw.) Bruch, Schimp. & W.Gümbel var. *torrentium* Thér. = *Thamnium alopecurum* (Hedw.) Nieuwl. fo. *torrentium* Thér.

Thamnium alopecurum (Hedw.) Bruch, Schimp. & W.Gümbel fo. *torrentium* Thér. ALG(38).

A new combination seems to be necessary for this taxon. If valid, it should be related to *Thamnobryum alopecurum* (Hedw.) Nieuwl.

Thamnium mediterraneum (Bott.) G.Roth = *Thamnium alopecurum* (Hedw.) Bruch, Schimp. & W.Gümbel ssp. *mediterraneum* Bott.

Thamnobryum alopecurum (Hedw.) Nieuwl. ALG(1, 38), MOR(1), TUN(1).

Thuidium minutulum (Hedw.) Bruch, Schimp. & W.Gümbel

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

- Thuidium philibertii* Limpr. ALG(1).
Thuidium recognitum (Hedw.) Lindb. = *Thuidium philibertii* Limpr.
Thuidium tamariscinum (Hedw.) Bruch, Schimp. & W.Gümbel
 The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Timmia bavaria* Hesselbo ALG(1), MOR(1).
Timmiella anomala (Bruch, Schimp. & W.Gümbel) Limpr. MOR(1).
Timmiella barbula Limpr. = *Timmiella barbuloides* (Brid.) Mönk.
Timmiella barbuloides (Brid.) Mönk. ALG(1, 2, 38, 55), CHA(100, 106), EGY(31), LBY(91, 93, 95, 110, 119, 121) MOR(1, 38, 55, 67, 73), TUN(1).
Tortella caespitosa (Schwägr.) Limpr. = *Tortella humilis* (Hedw.) Jenn.
Tortella elkantarensis Thér. & Trab. ALG(1).
Tortella flavovirens (Bruch) Broth. ALG(1, 2, 38, 55), LBY(119), MOR(1, 38, 55), TUN(19, 55).
Tortella fragilis (Drumm.) Limpr. MOR(1).
Tortella humilis (Hedw.) Jenn. ALG(1, 38), MOR(1), TUN(1).
Tortella inclinata (R.Hedw.) Limpr. ALG(1).
Tortella inclinata (R.Hedw.) Limpr. var. *brachypoda* (Besch.) Paris ALG(1).
Tortella inflexa (Bruch) Broth. ALG(1), EGY(31), LBY(115, 119), MOR(1), SPA(1), TUN(8).
Tortella nitida (Lindb.) Broth. ALG(1, 38), EGY(31, 90, 98), LBY(93, 110, 119), MOR(1, 38, 73), TUN(1).
Tortella nitida (Lindb.) Broth. var. *media* (Boulay) Corb. LBY(119), MOR(1), TUN(1, 8).
Tortella nitida (Lindb.) Broth. var. *obtusa* (Boulay) Jelenc LBY(93, 119), MOR(1).
Tortella nitida (Lindb.) Broth. var. *subtortuosa* (Boulay) Jelenc ALG(1).
Tortella squarrosa (Brid.) Limpr. = *Pleurochaete squarrosa* (Brid.) Limpr.
Tortella tortuosa (Hedw.) Limpr. ALG(1, 2, 38, 68), LBY(95), MOR(1, 67, 73).
Tortella tortuosa (Hedw.) Limpr. var. *fragilifolia* (Jur.) Limpr. = *Tortella tortuosa* (Hedw.) Limpr.
Tortula alpina (Bruch, Schimp. & W.Gümbel) Bruch in Breutel = *Syntrichia sinensis* (Müll.Hal.) Ochyra
Tortula alpina (Bruch, Schimp. & W.Gümbel) Bruch in Breutel var. *inermis* (Milde) De Not. = *Syntrichia fragilis* (Taylor) Ochyra
Tortula atrovirens (Sm.) Lindb. ALG(1, 15, 38, 55), CHA(101), LBY(110, 119), MOR(1, 38, 55, 122), TUN(1).
Tortula atrovirens (Sm.) Lindb. var. *edentula* (Bruch, Schimp. & W.Gümbel) Schimp. MOR(1).
Tortula atrovirens (Sm.) Lindb. var. *gasilieni* (Venturi) Limpr. ALG(38, 67).
Tortula canescens Mont. ALG(1), LBY(91), MOR(1), TUN(1).
Tortula caninervis (Mitt.) Broth. = *Syntrichia caninervis* Mitt.
Tortula cuneifolia (With.) Turner ALG(1, 2, 38), MOR(1), SPA(1), TUN(1).
Tortula cuneifolia (With.) Turner var. *caulescens* Jelenc nom. nud. ALG(1).
Tortula cuneifolia (With.) Turner var. *pilifera* Jelenc nom. nud. ALG(1).
Tortula desertorum Broth. = *Syntrichia caninervis* Mitt.
Tortula erubescens (Müll.Hal.) Broth. = *Syntrichia fragilis* (Taylor) Ochyra
Tortula euryphylla R.H.Zander MOR (1, 38, 67).
Tortula fragilis Taylor = *Syntrichia fragilis* (Taylor) Ochyra
Tortula humillima Cardot & Copp. ALG(1, 26).
Tortula inermis (Brid.) Mont. = *Syntrichia inermis* (Brid.) Bruch in Huebener
Tortula intermedia (Brid.) De Not. = *Syntrichia intermedia* Brid.
Tortula laevipila (Brid.) Schwägr. = *Syntrichia laevipila* Brid.
Tortula laevipila (Brid.) Schwägr. var. *laevipiliformis* (De Not.) Limpr. = *Syntrichia laevipila* Brid. var. *meridionalis* (Schimp.) Jur.
Tortula laevipila (Brid.) Schwägr. var. *meridionalis* (Schimp.) Wijk & Margad. = *Syntrichia laevipila* Brid. var. *meridionalis* (Schimp.) Jur.
Tortula mairei Thér & Trab. ALG(1).
Tortula marginata (Bruch & Schimp.) Spruce ALG(1, 38, 68), LBY(93, 110, 115, 119), MOR(1, 38, 67), TUN(1).
Tortula marginata (Bruch & Schimp.) Spruce ssp. *limbata* (Lindb.) Podp. TUN(1).
Tortula montana (Nees) Lindb. = *Syntrichia intermedia* Brid.
Tortula montana (Nees) Lindb. var. *calva* (Durieu & Sagot) Limpr. = *Syntrichia intermedia* Brid. var. *calva* (Durieu & Sagot) Delogne
Tortula mucronifolia Schwägr. MOR(1).
Tortula muralis Hedw. ALG(1, 38), EGY(25, 31), LBY(91, 93, 95, 115, 119, 121), MOR(1, 38, 67, 73), TUN(1).
Tortula muralis Hedw. var. *aestiva* Brid. ex Hedw. ALG(1, 2, 38), MOR(1), TUN(1).
Tortula muralis Hedw. var. *incana* (Bruch, Schimp. & W.Gümbel) Wilson = *Tortula muralis* Hedw. fo. *incana* (Bruch, Schimp. & W.Gümbel) Sapjegin
Tortula muralis Hedw. var. *obcordata* (Schimp.) Limpr. ALG(1, 15, 38), EGY(31), LBY(91, 119), MOR(1), TUN(1).
Tortula muralis Hedw. var. *rupestris* Chevall. = *Tortula muralis* Hedw. fo. *rupestris* (Chevall.) Sapjegin
Tortula muralis Hedw. fo. *incana* (Bruch, Schimp. & W.Gümbel) Sapjegin ALG(1), EGY(31), LBY(91, 93, 110, 115, 119), MOR(1, 38), TUN(1).

- Tortula muralis* Hedw. fo. *rupestris* (Chevall.) Sapjegin ALG(1, 38, 68), MOR(1), TUN(1).
- Tortula obtusifolia* (Schwägr.) Mathieu North Africa (67), ALG(1), MOR(1, 75).
- Tortula pagorum* (Milde) De Not. = *Syntrichia pagorum* (Milde) J.J.Amann
- Tortula papillosissima* (Copp.) Broth. = *Syntrichia ruralis* (Hedw.) F.Weber & D.Mohr var. *hirsuta* (Venturi) Podp.
- Tortula pellucida* Lindb. ex De Not. = *Tortula marginata* (Bruch & Schimp.) Spruce ssp. *limbata* (Lindb.) Podp.
- Tortula princeps* De Not. = *Syntrichia princeps* (De Not.) Mitt.
- Tortula pulvinata* (Jur.) Limpr. = *Syntrichia virescens* (De Not.) Ochyra
- Tortula revolvens* (Schimp.) G. Roth ALG(1, 15), LBY(91, 95, 119), MOR(1), TUN(1).
- Tortula revolvens* (Schimp.) G. Roth var. *obtusata* Reimers ALG(55, 122), LBY(115, 119), MOR(126), TUN(126).
- Tortula ruraliformis* (Besch.) Ingham = *Syntrichia ruralis* (Hedw.) F.Weber & D.Mohr var. *arenicola* (Braithw.) J.J.Amann
- Tortula ruralis* (Hedw.) P.Gaernt, B.Mey. & Schreb. = *Syntrichia ruralis* (Hedw.) F.Weber & D.Mohr
- Tortula ruralis* (Hedw.) P.Gaernt, B.Mey. & Schreb. var. *norvegica* (F.Weber) Mönck. (*) = *Syntrichia norvegica* F.Weber
- Tortula ruralis* (Hedw.) Gaernt, B.Mey. & Schreb. var. *rupestris* Wilson = *Syntrichia intermedia* Brid.
- Tortula ruralis* (Hedw.) Gaernt, B.Mey. & Schreb. var. *ruraliformis* (Besch.) Wild. = *Syntrichia ruralis* (Hedw.) F.Weber & D.Mohr var. *arenicola* (Braithw.) J.J.Amann
- Tortula ruralis* (Hedw.) Gaernt, B.Mey. & Schreb. var. *subpapillosissima* Bizot & R.B.Pierrot = *Syntrichia ruralis* (Hedw.) F.Weber & D.Mohr var. *subpapillosissima* (Bizot & R.B.Pierrot) R.H.Zander
- Tortula saharae* Trab. = *Syntrichia caninervis* Mitt.
- Tortula solmsii* (Schimp.) Limpr. ALG(1), MOR(1).
- Tortula subulata* Hedw. ALG(1, 2, 38), CHA(101), MOR(1, 38, 67, 138), TUN(1).
- Tortula subulata* Hedw. var. *angustata* (Schimp.) Limpr. ALG(1, 8, 38), MOR(1, 36), TUN(1).
- Tortula subulata* Hedw. var. *integrifolia* (Boulay) Brizi = *Tortula subulata* Hedw. var. *angustata* (Schimp.) Limpr.
- Tortula subulata* Hedw. var. *mutica* (Schimp.) Limpr. ALG(1).
- Tortula subulata* Hedw. var. *subinermis* (Bruch & Schimp.) Wilson ALG(1), MOR(1).
- Tortula vahliana* (Schultz) Mont. ALG(1, 8), EGY(31), LBY(121), MOR(1, 38), TUN(1).
- Tortula vahliana* (Schultz) Mont. var. *minor* (Husn.) Paris ALG(1), TUN(1).
- Tortula wilczekii* Meyl. ALG(1).
- Trichostomum armatum* Thér. & Trab. = *Trichostomum crispulum* Bruch var. *armatum* (Thér. & Trab.) Bizot
- Trichostomum barbula* Schwägr. = *Timmiella barbuloidea* (Brid.) Mönk.
- Trichostomum brachydontium* Bruch ALG(1, 38, 55), MOR(1, 38, 55, 67, 122), SPA(55), TUN(1).
- Trichostomum brachydontium* Bruch ssp. *mutabile* (Bruch) Giacom. ALG(1), LBY(91, 95), MOR(73).
- Trichostomum brachydontium* Bruch var. *littorale* (Mitt.) C.E.O.Jensen in Weim. ALG(1), MOR(73).
- Trichostomum convolutum* Brid. = *Tortula atrovirens* (Sm.) Lindb.
- Trichostomum crispulum* Bruch ALG(1, 2, 38, 55, 68), CHA(100, 106), LBY(91, 95, 110, 115, 119), MOR(1, 38, 67, 73), SPA(55), TUN(1).
- Trichostomum crispulum* Bruch var. *algarvicum* Schimp. MOR(1).
- Trichostomum crispulum* Bruch var. *armatum* (Thér. & Trab.) Bizot ALG(1, 15).
- Trichostomum crispulum* Bruch var. *brevifolium* Bruch & Schimp. ALG(1), TUN(19).
- Trichostomum crispulum* Bruch var. *elatum* Schimp. ALG(1).
- Trichostomum crispulum* Bruch var. *pseudo-weisia* Schimp. ALG(1).
- Trichostomum crispulum* Bruch fo. *longifolium* Bouvet CHA(100, 106), MOR(1).
- Trichostomum cylindricum* (Brid.) Müll.Hal. = *Trichostomum tenuirostre* (Hook. & Taylor) Lindb.
- Trichostomum ehrenbergii* Lorentz = *Barbula bolleana* (Müll.Hal.) Broth. (Frahm *et al.*, 1996)
- Trichostomum inflexum* Bruch in F.Muell. = *Tortella inflexa* (Bruch) Broth.
- Trichostomum littorale* Mitt. = *Trichostomum brachydontium* Bruch var. *littorale* (Mitt.) C.E.O.Jensen in Weim.
- Trichostomum mutabile* Bruch in De Not. = *Trichostomum brachydontium* Bruch ssp. *mutabile* (Bruch) Giacom.
- Trichostomum nitidum* (Lindb.) Schimp. = *Tortella nitida* (Lindb.) Broth.
- Trichostomum nitidum* (Lindb.) Schimp. var. *obtusum* (Boulay) Zodda = *Tortella nitida* (Lindb.) Broth. var. *obtusum* (Boulay) Jelenc
- Trichostomum pallidisetum* H.Müll. = *Weissia triumphans* (De Not.) M.O.Hill
- Trichostomum tenuirostre* (Hook. & Taylor) Lindb. ALG(1), MOR(38, 67).
- Trichostomum triumphans* De Not. in Schimp. = *Weissia triumphans* (De Not.) M.O.Hill
- Trichostomum viridulum* Bruch in F.Muell. = *Trichostomum crispulum* Bruch fo. *longifolium* Bouvet
- Ulota crispa* (Hedw.) Brid.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.
- Vesicularia reimersiana* Bizot & P. de la Varde MLI(1, 78).
- Warnstorfia exannulata* (Bruch, Schimp. & W.Gümbel) Loeske MOR(1, 75).

- Warnstorfia fluitans* (Hedw.) Loeske ALG(1), MOR(1).
Webera annotina (Hedw.) Bruch in Schwägr. = *Pohlia annotina* (Hedw.) Lindb.
Webera annotina (Hedw.) Bruch. in Schwägr. var. *decipiens* (Loeske) Roell. = *Pohlia annotina* var. *decipiens* Loeske
Webera carnea Schimp. = *Pohlia melanodon* (Brid.) A.J.Shaw
Webera cruda (Hedw.) Fürnr. = *Pohlia cruda* (Hedw.) Lindb.
Webera elongata (Hedw.) Schwägr. = *Pohlia elongata* Hedw.
Webera grandiflora (H.Lindb.) C.E.O.Jensen var. *decipiens* (Loeske) Jansen & Wacht. = *Pohlia annotina* (Hedw.) Lindb.
Webera nutans Hedw. = *Pohlia nutans* (Hedw.) Lindb.
Weissia brachycarpa (Nees & Hornsch.) Jur. ALG(1, 38, 67), MOR(1, 67, 73), TUN(1).
Weissia condensa (Voit) Lindb. ALG(1), LBY(91), MOR(1, 73), TUN(1, 8).
Weissia controversa Hedw. ALG(1, 2, 38, 55), MOR(1, 38, 67, 73), TUN(1).
Weissia controversa Hedw. var. *amblyodon* (Brid.) Sendtn. MOR(1), TUN(1).
Weissia controversa Hedw. var. *densifolia* (Bruch, Schimp. & W.Gümbel) Wilson ALG(1).
Weissia controversa Hedw. var. *stenocarpa* Nees & Hornsch. MOR(1), TUN(1).
Weissia crispata (Nees & Hornsch.) Müll.Hal. = *Weissia fallax* Sehm.
Weissia fallax Sehm. ALG(1, 2, 38), MOR(1, 73).
Weissia leptocarpa Schimp. ex Besch. in Leresche & Levier *hom. illeg.* ALG(1).
Weissia levieri (Limpr.) Kindb. North Africa(1).
Weissia longifolia Mitt. ALG(1), EGY(98), MOR(1), TUN(8).
Weissia microstoma (Hedw.) Müll.Hal. = *Weissia brachycarpa* (Nees & Hornsch.) Jur.
Weissia multicapsularis (Sm.) Mitt. ALG(1).
Weissia pallescens Schimp. ex Besch. = *Weissia wimmeriana* (Sendtn.) Bruch, Schimp. & W.Gümbel var. *pallescens* (Besch.) Bott.
Weissia rohlfiana Müll.Hal. = *Barbula indica* (Hook.) Spreng.
Weissia rostellata (Brid.) Lindb.
 The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1984) it is found in North Africa.
Weissia rutilans (Hedw.) Lindb. ALG(1), MOR(1, 38, 67), TUN(1).
Weissia triumphans (De Not.) M.O.Hill ALG(1, 38, 55, 68), MOR(1), TUN(1, 55).
Weissia viridula Hedw. ex Brid. = *Weissia controversa* Hedw.
Weissia viridula Hedw. ex Brid. var. *gymnostomoides* (Brid.) Bruch, Schimp. & W.Gümbel = *Weissia fallax* Sehm.

Weissia wimmeriana (Sendtn.) Bruch, Schimp. & W.Gümbel var. *pallescens* (Besch.) Bott. ALG(1), MOR(1).

According to Blockeel & Smith (1998), a new combination seems to be necessary for this taxon. If valid, it should be related to *Weissia controversa* Hedw. var. *wimmeriana* (Sendtn.) Blockeel & A.J.E.Smith.

Zygodon conoideus (Dicks.) Hook. & Taylor

The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1985) it is found in North Africa.

Zygodon dimorphus Thér. ex Jelenc, Bulletin de la Société d'Histoire Naturelle de l'Afrique du Nord, 46: 117. 1955 *nom. nud.* (*) MOR(67).

Zygodon forsteri (Dicks.) Mitt. ALG(45).

Zygodon rupestris Schimp. ex Lorentz ALG(38), MOR(1).

Zygodon viridissimus (Dicks.) Brid. ALG(1), MOR(1), TUN(1).

Zygodon viridissimus (Dicks.) Brid. var. *rupestris* Hartm. = *Zygodon rupestris* Schimp. ex Lorentz

Zygodon viridissimus (Dicks.) Brid. var. *vulgaris* Malta fo. *mediterranea* Malta (*) ALG(38).

The combination of two infraspecific taxa does not appear in Index Muscorum or any other Index or nomenclatural work. It is contradictory because at present *Zygodon viridissimus* (Dicks.) Brid. var. *vulgaris* Malta is an old name for *Zygodon rupestris* Schimp. ex Lorentz and *Zygodon viridissimus* (Dicks.) Brid. fo. *mediterraneus* Malta is a taxon related to *Zygodon viridissimus* (Dicks.) Brid.

LIVERWORTS AND HORNWORTS

Aneura pinguis (L.) Dumort. ALG(1, 18, 38), MOR(1, 47, 57).

Aneura pinguis (L.) Dumort. fo. *submersa* Loeske *nom. inval.* MOR(1).

Anthoceros agrestis Paton MOR(47), TUN(84).

Anthoceros crispulus (Mont.) Douin = *Anthoceros agrestis* Paton

Anthoceros dichotomus Raddi = *Phaeoceros bulbiculosus* (Broth.) Prosk.

Anthoceros husnotii Steph. = *Anthoceros punctatus* L.

Anthoceros laevis L. = *Phaeoceros laevis* (L.) Prosk.

Anthoceros punctatus L. ALG(1), MOR(1, 47), TUN(44).

Anthoceros punctatus L. var. *crispatus* auct. TUN(44).

Asterella africana (Mont.) A.Evans ALG(1), MOR(1, 34), TUN(44).

Athalamia hyalina (Sommerf.) S.Hatt. ALG(1, 38), MOR(34).

Athalamia spathysii (J.Lindb.) S.Hatt. ALG(1), LBY(41, 92, 95), MOR(1, 34), TUN(1, 44).

Calypogeia arguta Nees & Mont. MOR(1, 47, 77), TUN(1, 44, 77).

- Calypogeia azurea* Stotler & Crotz ALG(1, 38, 46, 68), MOR(1, 39, 47, 57), TUN(1).
- Calypogeia azurea* Stotler & Crotz var. *sprengelii* Nees TUN(1).
- Calypogeia fissa* (L.) Raddi MOR(1), TUN(44).
- Calypogeia muelleriana* (Schiffn.) Müll.Frib.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1983) it is found in North Africa.
- Calypogeia trichomanis* auct. = *Calypogeia azurea* Stotler & Crotz.
- Calypogeia trichomanis* auct. var. *sprengelii* Nees = *Calypogeia azurea* Stotler & Crotz var. *sprengelii* Nees
- Cephalozia bicuspidata* (L.) Dumort. ALG(1), MOR(1, 39, 47, 57), TUN(1, 44).
- Cephalozia bicuspidata* (L.) Dumort. fo. *setulosa* Spruce MOR(1).
- Cephalozia bicuspidata* (L.) Dumort. var. *setulosa* Spruce = *Cephalozia bicuspidata* (L.) Dumort. fo. *setulosa* Spruce
- Cephalozia connivens* (Dicks.) J.Lindb. TUN(44).
- Cephalozia lunulifolia* (Dumort.) Dumort.
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1983) it is found in North Africa.
- Cephaloziella baumgartneri* Schiffn. ALG(1, 55), LBY(41), MOR(1, 47), TUN(44, 71).
- Cephaloziella baumgartneri* Schiffn. var. *algeriensis* Douin = *Cephaloziella baumgartneri* Schiffn.
- Cephaloziella byssacea* (A.Roth.) Warnst. = *Cephaloziella hampeana* (Nees) Schiffn.
- Cephaloziella calyculata* (Durieu & Mont.) Müll.Frib. ALG(1, 38, 68), MOR(47), TUN(44).
- Cephaloziella divaricata* (Sm.) Schiffn. ALG(1), MOR(1, 47), TUN(1, 44).
- Cephaloziella gracillima* Douin = *Cephaloziella stellulifera* (Taylor ex Spruce) Schiffn.
- Cephaloziella hampeana* (Nees) Schiffn. ALG(1), MOR(1, 47), TUN(1).
- Cephaloziella media* J.Lindb. (*) TUN(71).
- Probably the citation of Tunisia by Labbe (1953) refers to *Cephalozia media* J.Lindb., which at the moment is a synonym of *Cephalozia lunulifolia* (Dumort.) Dumort.
- Cephaloziella starkei* (Spruce) Schiffn. = *Cephaloziella divaricata* (Sm.) Schiffn.
- Cephaloziella stellulifera* (Taylor ex Spruce) Schiffn. ALG(1, 38, 55), MOR(1), TUN(44, 71).
- Cephaloziella turneri* (Hook.) Müll.Frib. ALG(1), MOR(1, 38, 39, 47, 57), TUN(1, 44).
- Chiloscyphus fragilis* Schiffn. = *Chiloscyphus pallescens* (Ehrh. ex Hoffm.) Dumort.
- Chiloscyphus pallescens* (Ehrh. ex Hoffm.) Dumort. ALG(1), MOR(47), SPA(1).
- Chiloscyphus polyanthos* (L.) Corda ALG(1), MOR(1, 47), TUN(1, 44).
- Chiloscyphus rivularis* Hazsl. = *Chiloscyphus polyanthos* (L.) Corda
- Cladopodiella fluitans* (Nees) H.Buch MOR(1).
- Clevea crassa* Trab. = *Athalamia hyalina* (Sommerf.) S.Hatt.
- Clevea hyalina* (Sommerf.) J.Lindb. = *Athalamia hyalina* (Sommerf.) S.Hatt.
- Clevea roussseliana* (Mont.) Leitg. = *Athalamia spathysii* (J.Lindb.) S.Hatt.
- Clevea spathysii* (J.Lindb.) Müll.Frib. = *Athalamia spathysii* (J.Lindb.) S.Hatt.
- Clevea trabutiana* Steph. = *Athalamia hyalina* (Sommerf.) S.Hatt.
- Cololejeunea minutissima* (Sm.) Schiffn. ALG(1), TUN(1, 44).
- Cololejeunea rossettiana* (C.Massal.) Schiffn. ALG(1), MOR(1, 2).
- Conocephalum conicum* (L.) Underw. ALG(1), MOR(1, 38, 68), TUN(1, 38, 44).
- Corsinia coriandrina* (Spreng.) J.Lindb. ALG(1, 2, 18, 38), MOR(1, 34, 38), TUN(1, 44).
- Corsinia coriandrina* (Spreng.) J.Lindb. var. *latifrons* Trab. = *Corsinia coriandrina* (Spreng.) J.Lindb.
- Corsinia marchantioides* Raddi = *Corsinia coriandrina* (Spreng.) J.Lindb.
- Dichiton calyculatum* (Durieu & Mont.) Schiffn. = *Cephaloziella calyculata* (Durieu & Mont.) Müll.Frib.
- Diplophyllum albicans* (L.) Dumort. MOR(39).
- Exormotheca bullosa* (Link ex J.Lindb.) Müll.Frib. ALG(1), MOR(1, 47).
- Exormotheca pustulosa* Mitt. MOR(1).
- Fimbriaria africana* Mont. = *Asterella africana* (Mont.) A.Evans
- Fossombronina angulosa* (Dicks.) Raddi ALG(1), MOR(1, 38, 47), TUN(1, 44).
- Fossombronina caespitiformis* De Not. ex Rabenh. ALG(1, 2, 18, 55, 68), LBY(41), MOR(1, 38, 47, 55, 67, 73, 122), TUN(1, 44, 71).
- Fossombronina crozalsii* Corb. ALG(1).
- Fossombronina echinata* Macvicar ALG(1, 18, 55), MOR(47), TUN(44).
- Fossombronina foveolata* J.Lindb. MOR(1).
- Fossombronina husnotii* Corb. ALG(1, 18, 68), LBY(92), MOR(1), SPA(1), TUN(1).
- Fossombronina intermedia* (Corb.) Trab. nom. nud. ALG(1).
- Fossombronina mauritanica* Trab. nom. nud. ALG(1).
- Fossombronina pusilla* (L.) Nees ALG(1), MOR(47), TUN(1, 44).
- Fossombronina verrucosa* J.Lindb. = *Fossombronina caespitiformis* De Not. ex Rabenh.
- Fossombronina wondrackzekii* (Corda) J.Lindb. ALG(18), MOR(1, 47), TUN(1).
- Frullania dilatata* (L.) Dumort. ALG(1), MOR(1, 47), TUN(1, 44).
- Frullania germana* (Taylor) Gottsche, J.Lindb. & Nees = *Frullania teneriffae* (F.Weber) Nees
- Frullania microphylla* (Gottsche) Pearson MOR(1), TUN(1, 44).

- Frullania tamarisci* (L.) Dumort. ALG(1, 46), MOR(1, 38, 47, 135).
- Frullania tamarisci* (L.) Dumort. var. *hispanica* Nees = *Frullania tamarisci* (L.) Dumort.
- Frullania tamarisci* (L.) Dumort. var. *mediterranea* De Not. North Africa(1).
- Frullania tamarisci* (L.) Dumort. var. *robusta* (J.Lindb.) Husn. MOR(1).
- Frullania teneriffae* (F.Weber) Nees MOR(1).
- Gongylanthus ericetorum* (Raddi) Nees ALG(1, 38, 55), MOR(1, 38, 47), TUN(44, 71).
- Grimaldia dichotoma* Raddi = *Mannia androgyna* (L.) Evans
- Gymnocolea inflata* (Huds.) Dumort. TUN(1).
- Haplozia crenulata* Dumort. = *Jungermannia gracillima* Sm.
- Isopaches bicrenatus* (Schmidel) H.Buch. = *Lophozia bicrenata* (Schmidel ex Hoffm.) Dumort.
- Jungermannia atrovirens* Dumort. ALG(1), MOR(1).
- Jungermannia gracillima* Sm. ALG(1, 61), TUN(44, 71).
- Jungermannia hyalina* Lyell ALG(1), MOR(47), TUN(1).
- Jungermannia obovata* Nees TUN(44).
- Jungermannia sphaerocarpa* Hook. ALG(1).
- Jungermannia subelliptica* (J.Lindb. ex Kaal.) Levier
- The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1983) it is found in North Africa.
- Jungermannia tristis* Nees = *Jungermannia atrovirens* Dumort.
- Leiocolea turbinata* (Raddi) H.Buch. = *Lophozia turbinata* (Raddi) Steph.
- Lejeunea cavifolia* (Ehrh.) J.Lindb. ALG(1, 46), MOR(1, 38, 47), TUN(1, 19, 44).
- Lophocolea bidentata* (L.) Dumort. ALG(1), MOR(1, 47), TUN(1, 44).
- Lophocolea cuspidata* Limpr. = *Lophocolea bidentata* (L.) Dumort.
- Lophocolea fragrans* (Moris & De Not.) Gottsche, J.Lindb. & Nees MOR(1, 47).
- Lophocolea heterophylla* (Schrad.) Dumort. MOR(1, 47), TUN(1, 44).
- Lophocolea minor* Nees MOR(1).
- Lophozia bicrenata* (Schmidel ex Hoffm.) Dumort. ALG(1).
- Lophozia turbinata* (Raddi) Steph. ALG(1, 2), MOR(1, 47), TUN(1, 44).
- Lophozia turbinata* (Raddi) Steph. fo. *aquatica* Jelenc nom. inval. MOR(1).
- Lunularia cruciata* (L.) J.Lindb. ALG(1, 2, 18, 38, 55), LBY(41, 93, 109, 119, 121), MOR(1, 39, 47, 57, 73, 126), SPA(55), TUN(1, 44).
- Lunularia vulgaris* P.Micheli = *Lunularia cruciata* (L.) J.Lindb.
- Madotheca cordaeana* (Huebener) Dumort. = *Porella cordaeana* (Huebener) Moore
- Madotheca laevigata* (Schrad.) Dumort. = *Porella arboris-vitae* (With.) Grollé
- Madotheca platyphylla* (L.) Dumort. = *Porella platyphylla* (L.) Pfeiff.
- Madotheca thuja* (Dicks.) Dumort. = *Porella obtusata* (Taylor) Trevis.
- Mannia androgyna* (L.) A.Evans ALG(1), CHA(105), EGY(4), MOR(1, 34, 73), TUN(44).
- Mannia atlantica* (Trab.) Jelenc nom. inval. ALG(1).
- Marchantia paleacea* Bertol. ALG(1, 38), EGY(42), MOR(1, 38).
- Marchantia polymorpha* L. ALG(1), EGY(4), MOR(1, 38).
- Marsupella emarginata* (Ehrh.) Dumort. TUN(44).
- Metzgeria furcata* (L.) Dumort. ALG(1), MOR(1, 47), TUN(1, 44).
- Moerckia hibernica* (Hook.) Gottsche ALG(1), MOR(1).
- Nardia scalaris* Gray ALG(1), TUN(1).
- Oxymitra incrassata* (Broth.) Sergio & Sim-Sim ALG(1, 2, 18, 38, 55), LBY(41, 92), MOR(1, 34, 35, 51, 55, 122), TUN(38, 44, 71).
- Oxymitra paleacea* Bisch. ex J.Lindb. = *Oxymitra incrassata* (Broth.) Sergio & Sim-Sim (Sérgio & Sim-Sim, 1989)
- Oxymitra pyramidata* Huebener = *Oxymitra incrassata* (Broth.) Sergio & Sim-Sim
- Pallavicinia lyellii* (Hook.) Carruth. TUN(44, 71).
- Pedinophyllum interruptum* (Nees) Kaal. ALG(1, 38).
- Pedinophyllum interruptum* (Nees) J.Lindb. var. *pyrenaica* (Spruce) J.Lindb. = *Pedinophyllum interruptum* (Nees) Kaal.
- Pellia endiviifolia* (Dicks.) Dumort. ALG(2, 38, 68), LBY(93, 119), MOR(1, 38, 47, 73), TUN(1, 44).
- Pellia endiviifolia* (Dicks.) Dumort. fo. *furcigera* (Hook.) C.Massal. ALG(38).
- Pellia epiphylla* (L.) Corda ALG(1, 2), TUN(1, 44, 72).
- Pellia fabbroniana* Raddi = *Pellia endiviifolia* (Dicks.) Dumort.
- Pellia fabbroniana* Raddi fo. *undulata* Jelenc nom. inval. ALG(38).
- A new combination seems to be necessary for this taxon. If valid, it should be related to *Pellia endiviifolia* (Dicks.) Dumort.
- Petalophyllum ralfsii* (Wilson) Nees & Gottsche ALG(1, 38), TUN(44, 71).
- Phaeoceros bulbiculosus* (Broth.) Prosk. ALG(1, 18), MOR(1, 38, 47), SPA(1), TUN(1, 44).
- Phaeoceros laevis* (L.) Prosk. ALG(1, 2, 18, 38), LBY(41), MOR(1, 38, 47), TUN(38, 44).
- Plagiochasma algericum* Steph. = *Plagiochasma rupestre* (J.R.Forst. & G.Forst.) Steph.
- Plagiochasma beccarianum* Steph. LBY(112).
- Plagiochasma microcephalum* (Steph.) Steph. var. *tunesicum* Bischl. TUN(7, 44).
- Plagiochasma rupestre* (J.R.Forst. & G.Forst.) Steph. ALG(1, 7, 15, 26), CHA(105, 106), EGY(4, 7, 42), LBY(93, 119), MOR(1, 7, 34, 38, 73, 75, 126), TUN(1, 44).
- Plagiochila asplenioides* (L. emend. Taylor) Dumort. ALG(1).
- Plagiochila asplenioides* (L. emend. Taylor) Dumort. var. *minor* J.Lindb. = *Plagiochila porelloides* (Torr. ex Nees) J.Lindb.

- Plagiochila porelloides* (Torr. ex Nees) J.Lindb. ALG(1).
Plectocolea crenulata A.Evans = *Jungermannia gracillima* Sm.
Plectocolea crenulata A.Evans var. *gracillima* (Sm.) Frye & L.Clark = *Jungermannia gracillima* Sm.
Plectocolea hyalina (Lydell) Mitt. = *Jungermannia hyalina* Lyell
Plectocolea obovata (Nees) Mitt. = *Jungermannia obovata* Nees
Porella arboris-vitae (With.) Grolle ALG(1), MOR(1), SPA(1), TUN(44).
Porella canariensis (F.Weber) Bryhn North Africa(1).
Porella cordaeana (Huebener) Moore ALG(1, 38), LBY(121), MOR(1, 36, 47, 73).
Porella cordaeana (Huebener) Moore var. *distans* (Müll.-Frib.) Jelenc MOR(1).
Porella cordaeana (Huebener) Moore var. *simplicior* J.Lindb. = *Porella cordaeana* (Huebener) Moore
Porella kabylica (Trab.) Jelenc *nom. inval.* = *Porella cordaeana* (Huebener) Moore
Porella laevigata (Schrad.) Pfeiff. = *Porella arboris-vitae* (With.) Grolle
Porella laevigata (Schrad.) Pfeiff. var. *obscura* (Nees) Arnell = *Porella arboris-vitae* (With.) Grolle
Porella obtusata (Taylor) Trevis. ALG(1), MOR(47), SPA(1), TUN(1, 44).
Porella pinnata L. ALG(1), MOR(1).
Porella platyphylla (L.) Pfeiff. ALG(1, 38), MOR(1, 38, 47, 73), TUN(1, 44).
Porella platyphylloidea (Schwein.) J.Lindb. MOR(1).
Porella rivularis Trevis. = *Porella cordaeana* (Huebener) Moore
Porella thuja (Dicks.) Moore = *Porella obtusata* (Taylor) Trevis.
Preissia quadrata (Scop.) Nees MOR(1).
Prionolobus turneri Schiffn. = *Cephaloziella turneri* (Hook.) Müll.Frib.
Radula complanata (L.) Dumort. ALG(1), MOR(1, 47), TUN(1, 44).
Radula lindenbergiana Gottsche ex C.Hartm. ALG(1, 38), MOR(1, 47), TUN(1, 44).
Reboulia hemisphaerica (L.) Raddi ALG(1, 2, 38, 46, 68), CHA(131), LBY(41, 92, 95), MOR(1, 34, 38, 67, 73), TUN(1, 44).
Reboulia occidentalis Douin & R.C.V.Douin ALG(1).
Grolle (1983) considers this taxon as doubtful and proclaimed the need for further studies of this genus. Nevertheless, according to Dr Bischler (pers. comm.) it is a synonym of *Reboulia hemisphaerica* (L.) Raddi
Riccardia chamaedryfolia (With.) Grolle ALG(1, 46), MOR(1, 47), TUN(1).
Riccardia latifrons (J.Lindb.) J.Lindb. TUN(1, 44).
Riccardia multifida (L.) Gray ALG(1, 2, 38, 68), MOR(39, 47, 57), TUN(1, 44).
Riccardia pinguis (L.) Gray = *Aneura pinguis* (L.) Dumort.
Riccardia pinguis (L.) Gray fo. *submersa* Loeske ex Jaap *nom. inval.* = *Aneura pinguis* (L.) Dumort. fo. *submersa* Loeske *nom. inval.*
Riccardia sinuata Trevis. = *Riccardia chamaedryfolia* (With.) Grolle
Riccia aculeata Trab. *nom. nud.* ALG(1).
Grolle (1976) considers this species as 'Nomen dubium (vielleicht artidentisch mit *R. crozalsii* Levier) fide Jovet-Ast in lit.' Nevertheless, Jovet-Ast (1986) does not include this species in the synonyms of *R. crozalsii* Levier.
Riccia aegyptica Arnold EGY(4, 42).
Riccia atromarginata Levier ALG(1, 18, 38), EGY(4), LBY(41), MOR(1, 33, 34, 51, 55, 75, 122), TUN(1, 44).
Riccia atromarginata Levier var. *glabra* Levier ex Müll.-Frib. = *Riccia trabutiana* Steph.
Riccia battandieri Trab. *nom. nud.* ALG(1, 18).
Riccia beyrichiana Hampe ex Lehm. ALG(18), TUN(44).
Riccia bicarinata J.Lindb. ALG(1, 18, 38, 55), MOR(1, 34, 38), TUN(44).
Riccia bifurca Hoffm. ALG(1, 18).
Riccia bischoffii Huebener = *Riccia ciliifera* Link ex J.Lindb.
Riccia bischoffii Huebener var. *ciliifera* (Link ex J.Lindb.) Müll.Frib. = *Riccia ciliifera* Link ex J.Lindb.
Riccia bischoffii Huebener fo. *armata* Trab. *nom. inval.* ALG(1).
A new combination seems to be necessary for this taxon. If valid, it could be related to *Riccia ciliifera* Link ex J.Lindb. or *Riccia gougetiana* Durieu & Mont.
Riccia bischoffii Huebener fo. *maxima* Levier & J.B.Jack = *Riccia gougetiana* Durieu & Mont.
Riccia canaliculata Hoffm. ALG(1), MOR(1).
Jovet-Ast (1986) cites this taxon from Tunisia but she does not include any locality.
Riccia canescens Steph. = *Riccia trichocarpa* Howe
Riccia cavernosa Hoffm. EGY(40, 42), LBY(41), MOR(34, 40, 126), MTN(40), NGR(40), TUN(40, 44).
Jovet-Ast (1986) cites this taxon from the whole Mediterranean basin, which would also include Algeria, although she does not specify any locality.
Riccia chinensis Steph. ex Har. *nom. inval.* ALG(1).
Riccia chudoana Steph. North Africa (1).
Riccia ciliata Hoffm. ALG(1, 18), LBY(41, 111, 119), MOR(1, 34), TUN(1, 44).
Riccia ciliata Hoffm. var. *epilosa* Warnst. TUN(44).
Riccia ciliata Hoffm. var. *intumescens* Bisch. ALG(1, 18).
Riccia ciliata Hoffm. var. *violacea* Kny TUN(44).
Riccia ciliifera Link ex J.Lindb. ALG(1, 2, 18, 38), MOR(1, 34, 55, 73).
Jovet-Ast (1986) cites this taxon from Tunisia but she does not include any locality.
Riccia commutata J.B.Jack ex Levier = *Riccia warnstorffii* Limpr. ex Warnst.
Riccia commutata J.B.Jack ex Levier var. *acrotricha* Levier ex Sommer = *Riccia warnstorffii* Limpr. ex Warnst. var. *subinermis* Warnst.

- Riccia convexa* Steph. ex Har. *nom. inval.* MTN(1, 104).
- Riccia crozalsii* Levier ALG(1, 18), EGY(4), MOR(34, 55, 122), SPA(55), TUN(44).
- Riccia crustata* Trab. ALG(1), EGY(4), LBY(41), MOR(34), TUN(44).
- Riccia crystallina* L. emend. Raddi ALG(1, 15), CHA(107), EGY(4, 90), LBY(41, 107), MOR(1, 34, 40), TUN(44).
- Riccia duplex* Lorb. TUN(44).
- Riccia echinatala* Trab. *nom. nud.* ALG(1).
- Grolle (1976) considers this species as '*Nomen dubium* (vielleicht *R. ciliifera* Link ex J.Lindb.) fide Jovet-Ast *in lit.*'. Nevertheless, Jovet-Ast (1986) does not include this species in the synonyms of *R. ciliifera* Link ex J.Lindb.
- Riccia erinacea* Schiffn. = *Riccia gougetiana* Durieu & Mont. var. *armatissima* Levier ex Müll.Frib.
- Riccia esulcata* Steph. ex Har. *nom. inval.* MTN(1, 104).
- Riccia fluitans* L. emend. Lorb. ALG(1, 18, 38).
- Jovet-Ast (1986) cites this taxon from Morocco but she does not include any locality.
- Riccia fluitans* L. emend. Lorb. var. *bulbifera* Trab. ex Jelenc *nom. inval.* North Africa (1).
- Riccia fluitans* L. emend. Lorb. var. *canaliculata* (Hoffm.) A.Roth = *Riccia canaliculata* Hoffm.
- Riccia frostii* Austin CHA(37, 105), EGY(4, 42), MTN(37).
- Jovet-Ast (1986) cites this taxon from Algeria (Hoggar and Tassili des Ajjers) and Morocco.
- Riccia glauca* L. ALG(1, 2, 38), MOR(1, 34).
- Riccia glauca* L. var. *subinermis* (J.Lindb.) Warnst. ALG(1), MOR(34, 38).
- Riccia gougetiana* Durieu & Mont. ALG(1, 5, 18), MOR(1, 34, 55, 122), TUN(44).
- Riccia gougetiana* Durieu & Mont. var. *armatissima* Levier ex Müll.Frib. ALG(1, 38), MOR(1, 34), TUN(44).
- Riccia gougetiana* Durieu & Mont. var. *erinacea* Schiffn. = *Riccia gougetiana* Durieu & Mont. var. *armatissima* Levier ex Müll.Frib.
- Riccia henriquesii* Levier = *Riccia bicarinata* J.Lindb.
- Riccia huebeneriana* J.Lindb. ALG(1).
- Jovet-Ast (1986) does not include this taxon. Consequently its presence in Algeria should be considered as doubtful.
- Riccia huebeneriana* J.Lindb. var. *cavernosa* Casares-Gil = *Riccia cavernosa* Hoffm.
- Riccia insularis* Levier ex Steph. = *Riccia sorocarpa* Bisch.
- Riccia intumescens* (Bisch.) Heeg = *Riccia ciliata* Hoffm. var. *intumescens* Bisch.
- Riccia lamellosa* Raddi ALG(1, 18, 38, 55, 122), CHA(105), EGY(4), LBY(41, 92, 95, 111, 112, 119), MOR(1, 34, 38, 51, 55, 122), TUN(1, 44).
- Riccia lescuriana* Austin = *Riccia beyrichiana* Hampe ex Lehm.
- Riccia macrocarpa* Levier ALG(1, 55), MOR(1, 34, 55), TUN(44).
- Riccia mamillata* Trab. ALG(1).
- Riccia michelii* Raddi ALG(1, 2, 18, 38), LBY(41), MOR(1, 34), TUN(1, 44).
- Riccia michelii* Raddi var. *ciliaris* Levier = *Riccia michelii* Raddi
- Riccia michelii* Raddi var. *subinermis* Levier = *Riccia michelii* Raddi
- Riccia michelii* Raddi fo. *subinermis* Levier (*) = *Riccia michelii* Raddi
- Riccia munita* Trab. *nom. inval.* ALG(1).
- Grolle (1976) considers this species as '*Nomen dubium* (vielleicht *R. sorocarpa* Bisch.) fide Jovet-Ast *in lit.*'. Nevertheless, Jovet-Ast (1986) does not include this species in the synonyms of *R. sorocarpa* Bisch.
- Riccia nigrella* DC. ALG(1, 55), LBY(41, 111, 119), MOR(1, 34, 35, 55, 122), SPA(55), TUN(1, 44).
- Riccia nigrella* DC. var. *elongata* (Levier ex Müll.Frib.) Jelenc North Africa(1).
- Riccia papillosa* Moris ALG(1), MOR(1, 34), TUN(1).
- Riccia perennis* Steph. ALG(1, 18), MOR(1, 43), TUN(43, 44).
- Riccia plana* Taylor = *Riccia crystallina* L. emend. Raddi
- Riccia polycarpa* (Trab.) Jelenc ALG(1).
- Riccia pseudo-frostii* Schiffn. ex Müll.Frib. = *Riccia huebeneriana* J.Lindb.
- Riccia raddiana* J.B.Jack & Levier ex Steph. = *Riccia sorocarpa* Bisch.
- Riccia riatensis* Trab. *nom. nud.* MOR(1).
- Grolle (1976) considers this species as '*Nomen dubium* (vielleicht *R. lamellosa* Raddi) fide Jovet-Ast *in lit.*'. Nevertheless, Jovet-Ast (1986) does not include this species in the synonyms of *R. lamellosa* Raddi.
- Riccia saharensis* Steph. ex Ast NGR(1, 104).
- Riccia sommieri* Levier ALG(1, 18), MOR(34, 35).
- Riccia sorocarpa* Bisch. ALG(1, 18, 38), CHA(105), EGY(4, 42), LBY(41), MOR(1, 34, 35, 55, 122), TUN(44).
- Riccia sorocarpa* Bisch. var. *heigii* Schiffn. MOR(34), TUN(44).
- Jovet-Ast (1986) cites this taxon from Algeria but she does not include any locality.
- Riccia sorocarpa* Bisch. fo. *raddiana* (J.B.Jack & Levier ex Steph.) Croz. ex Casares-Gil = *Riccia sorocarpa* Bisch.
- Riccia spinosissima* Steph. = *Riccia ciliata* Hoffm.
- Riccia subbifurca* Warnst. ex Croz. ALG(1).
- Riccia subciliata* Trab. = *Riccia glauca* L. var. *subinermis* (J.Lindb.) Warnst.
- Riccia subinermis* J.Lindb. = *Riccia glauca* L. var. *subinermis* (J.Lindb.) Warnst.
- Riccia trabutiana* Steph. ALG(1, 18, 33, 38), LBY(33, 41, 92), MOR(1, 33, 34), TUN(44).
- Riccia trichocarpa* Howe ALG(1), LBY(41), MOR(34, 55, 122), TUN(44).
- Riccia tumida* J.Lindb. = *Riccia michelii* Raddi
- Riccia warnstorffii* Limpr. ex Warnst. ALG(1, 38), MOR(34).

- Riccia warnstorffii* Limpr. ex Warnst. var. *subinermis* Warnst. ALG(1), MOR(34).
Riccia warnstorffii Limpr. ex Warnst. fo. *subinermis* Warnst. = *Riccia warnstorffii* Limpr. var. *subinermis* Warnst.
Riccia zachariae Lorb. ex Müll.Frib. = *Riccia gougetiana* Durieu & Mont.
Ricciolepis natans (L.) Corda ALG(1), MOR(1), TUN(38).
Riella affinis Howe & Underw. North Africa(1).
Riella battandieri Trab. = *Riella notarisii* (Mont.) Mont.
Riella bialata Trab. ALG(1).
Riella clausonis Letourn. = *Riella parisii* Gottsche
Riella cossoniana Trab. ALG(1, 26, 66).
Riella cossoniana Trab. var. *echinata* Müll.Frib. = *Riella helicophylla* (Bory & Mont.) Mont. (Lipkin & Proctor, 1975)
Riella cyrenaica Maire LBY(41, 108).
Riella helicophylla (Bory & Mont.) Mont. ALG(1, 38, 66), EGY(54), MOR(74, 75), TUN(38, 44).
Riella notarisii (Mont.) Mont. ALG(1, 66), MOR(1, 47), TUN(1, 38, 44, 66).
Riella numidica Trab. ALG(1), MOR(38), TUN(1, 66).
Riella parisii Gottsche ALG(1, 66, 116), TUN(1).
Riella reuteri Mont. = *Riella notarisii* (Mont.) Mont.
Riella sersuensis Trab. ALG(1, 2, 17, 66).
Scapania compacta (Roth) Dumort. ALG(1), MOR(47), TUN(1, 19, 44).
Scapania compacta (Roth) Dumort. var. *biroliana* C.Massal. = *Scapania compacta* (Roth) Dumort.
Scapania curta (Mart.) Dumort. ALG(1), TUN(1).
Scapania gracilis J.Lindb. MOR(1), TUN(1).
Scapania irrigua (Nees) Nees ALG(1).
Scapania subalpina (Nees ex J.Lindb.) Dumort. ALG(1).
Scapania undulata (L.) Dumort. ALG(1, 38), MOR(1), TUN(1, 38, 44).
Scapania undulata (L.) Dumort. var. *aequatiformis* De Not. = *Scapania undulata* (L.) Dumort.
Solenostoma crenulatum (Sm.) Mitt. = *Jungermannia gracillima* Sm.
Southbya nigrella (De Not.) Henriq. ALG(1, 38), LBY(41, 95), MOR(1, 47), TUN(1, 44, 71).
Southbya stillicidiorum J.Lindb. = *Southbya tophacea* (Spruce) Spruce
Southbya tophacea (Spruce) Spruce ALG(1, 2, 38, 55), MOR(1, 47), TUN(1, 44).
Sphaerocarpos algeriensis Trab. nom. nud. ALG(1).
 According to Jovet-Ast (1956) this species is probably a synonym of *Sphaerocarpos texanus* Austin.
Sphaerocarpos michelii Bellardi ALG(1, 2, 38), LBY(41), MOR(1, 47), TUN(44, 71).
Sphaerocarpos texanus Austin LBY(41), MOR(1, 47).
Targionia hypophylla L. ALG(1, 2, 38, 55, 122), CHA(105), LBY(41, 47, 92, 93, 95, 114, 119), MOR(1, 38, 47, 67, 73, 75), SPA(1, 55), TUN(1, 19, 38, 44).
Targionia lorbeeriana Müll.Frib. = *Targionia hypophylla* L. (García-Zamora, Ros & Guerra, 1989).

- Targionia michelii* Corda = *Targionia hypophylla* L.
Tesselina pyramidata Dumort. = *Oxymitra incrassata* (Broth.) Sergio & Sim-Sim
Trichocolea tomentella (Ehrh.) Dumort.
 The presence of this species in North Africa should be considered as doubtful. It has not been cited in the literature compiled for this paper, although, according to Düll (1983) it is found in North Africa.

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Use this table to translate the numeric references given in the text of the checklist to the author and year of the literature. The alphabetic list of references follows the table.

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