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The Libyan Collections in FI (Herbarium Centrale Italicum and Webb Herbarium) and Studies on the Libyan Flora by R. Pampanini – Part 2

-The original material of new taxa conserved in the herbarium

-Proposals for typification and documentation of typifications already made (Phanerogams, families from N to Z)

-Conclusions

-Addenda & Corrigenda

Abstract

Cuccuini, P., Nepi, C., Abuhadra, M. N., Banfi, E., Domina, G., Luccioli, E., Miranda, S., Pagitz, K., Thiv, M. & Vela, E.: The Libyan Collections in FI (Herbarium Centrale Italicum and Webb Herbarium) and Studies on the Libyan Flora by R. Pampanini – Part 2. — Fl. Medit. 26: 81-143. 2016. — ISSN: 1120-4052 printed, 2240-4538 online.

This work is the continuation of Part 1, published in 2015, and comprises the reconstruction of the original collections of new taxa described by R. Pampanini and other botanists and, where possible, typification of the new names and taxonomical updating. The material studied for the most part concerns Libyan specimens held in the FI and FI-W herbaria but in some case also K, LD, MPU, P, PAD, PAL, ULT. Other material, which Pampanini studied in Florence was subsequently conserved in other herbaria. Specimens belonging to 21 families have been examined, from the *Najadaceae* to *Zygophyllaceae*. As well as typification, bibliographical data have been provided for those already typified. In this second part, a total of 113 names have been indexed and 91 typified, taking the names validly published in the entire work to 353, of which 286 are typified. Also on this occasion, we have provided taxonomic updates for each taxon. The Conclusions present a synthetic sum of the taxa still recognised taxonomically (entirely, in new combinations, or with a new status) in recent works on the Flora of N. Africa, in general revisions of various systematic groups, or reconsidered by the authors of this present work. We have also investigated the phyto-geographic origins of the taxa [according to the dominions proposed by Quézel (1978) for N. Africa]. Finally we have very briefly indicated the presence of material of the R. Pampanini collections (for Cyrenaica, together with R. E. G. Pichi Sermolli in 1934) in the most important herbaria.

The paragraph “Addenda et Corrigenda” has been added to the final part of the treatise and relates chiefly to taxa omitted from the first part, either on account of new information or as a result of errors which came to light after publication.

Key words: museology, nomenclature, taxonomy, typification, Flora of Libya, N. Africa, phyto-geography, Addenda & Corrigenda.

Introduction

The second part of the work on Libyan collections kept or studied at FI herbarium is the continuation of Cuccuini & al. (2015).

It starts with *Najadaceae* and ends with *Zygophyllaceae* family. The methods used are the same as the first part. At the end of the work, in addition to the conclusions, the coordinators have added a paragraph of ‘Addenda et Corrigenda’ that, as far as possible, recovers materials not previously found or corrects inaccuracies and errors in the first part.

CATALOGUE

Continuation from Cuccuini & al. (2015). For the legend of format, see Cuccuini & al. (2015). As compared with the first part, several new authors of taxa and collectors are included here. Among the former are A. Engler, P. Pavone, S. Pignatti, H. Scholz and D. Viviani, and among the second, Della Cella (as collector of the material represented in two tables by D. Viviani), A. Figari Bey, and G. A. A. Krause (the last included in the list of collectors but non mentioned in the text of the first part).

Najadaceae (S. Miranda)

New taxon: *Najas minor* var. *longifolia* Corti in Flora e Vegetazione del Fezzan e della Regione di Gat. Reale Società Geografica Italiana 1: 30. (1942).

Typus: [Libya], Fezzan occidentale: reg. di Gat, Elbarcat, 700 m., (1180), fossetto emisario della sorgente grande, abbondantissima, 02/03/1934. Leg. R. Corti. (FI016321, Lectotypus designated here).

Other Syntypi from the original collection: (1181-1186) (FI016322-FI016327).

Accepted name: *Najas minor* Allioni see: L. Triest in: Mém. Acad. Roy. Sci. Outre-Mer, Cl. Sci. Nat. Méd. Collect. 8vo n.s., 21: 59. 1987.

Note: also Jafri in: Fl. Lib. 113: 2-4. 1984a; in Triest 1987: 59, there is the complete citation of the Type, but the author declares: “*non vidi*”; on the sheet of the lectotypus there is a small label with a handwritten note (no. 000292) in pencil by Corti.

Oleaceae (G. Domina)

New taxon: *Phillyrea latifolia* var. *magnifica* Pamp. in Arch. Bot. XII(1): 40. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 73. (1938).

Type: Libya, Cirenaica, fra el Hania e Messa: l.d. Mregheb (6093), 09/05/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI001160, Lectotypus designated here).

Accepted name: *Phillyrea latifolia* L.

Note: the specimen no. 6093 is made up of two sheets mounted together clearly belonging to the same collection. In the first there is a piece of newspaper with the new name of the taxon handwritten by Pampanini.

Orobanchaceae (G. Domina & M. Abuhadra)

New taxon: *Cistanche lutea* f. *pallida* Pamp. in Arch. Bot. XII(1): 43. (1936a). Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 75. (1938).

Type: Libia, Cirenaica: Tra Bir Acheim e el-Mechili, Trigh Enver Bei Bir Bu Usceica (7355), 26/03/1933, Leg. R. Pampanini, (FI003688, Lectotypus designated here).

Other syntypus from the original collection: C.: el-Mechili, Uadi Ramla (7356), 27/03/1933, Leg. R. Pampanini (FI003689).

Accepted name: *Cistanche phelypaea* (L.) Cout.

Note: the specimen 7355 is accompanied by a strip of newspaper with the name of the new taxon handwritten by Pampanini; specimen 7356 is made up of three sheets.

New taxon: *Cistanche violacea* f. *bicolor* Pamp. in: Arch. Bot. XII(1): 43. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 75. (1938).

Type: Libia, Cirenaica: Msus (7365), 20/03/1933, Leg. R. Pampanini (FI003690) (Lectotypus designated here).

Other syntypi from the original collection: C: Steppa di el-Agheila (7363), 14/03/1933, Leg. R. Pampanini (FI003691); C.: esc-Sceleidima, a sud-est di Bengasi (7364), 20/03/1933, Leg. R. Pampanini (FI003692); C.: Zuetina, a nord-est di Agedabia (7366), 11/03/1934, Leg. R. Pampanini & R.E.G. Pichi Sermolli (FI003693).

Accepted name: *Cistanche violacea* (Desf.) G. Beck in Hoffmanns & Link.

Note: the specimen no. 7363 is accompanied by a strip of newspaper with the name of the new taxon handwritten by Pampanini; the specimen no. 7365 is made up of three sheets.

***Papaveraceae* (P. Cuccuini & C. Nepi)**

The genus *Hypecoum* was considered by Jafri in Fl. Lib. 44. (1977b) as belonging to the family of the same name (*Hypecoaceae*). The present publication does not recognise this choice (under the same criterion, the genus could be placed in the *Fumariaceae*) and the genus is maintained in the *Papaveraceae*.

New taxon: *Hypecoum aequilobum* Viv. in Fl. Lib., specimen: 7-8, tab. III, fig. 3. (1824).

Typus (Lectotypus): Fl. Lib., specimen, 1824, “H. in Cirenaica”, tab. III, fig. 3. (Typified by Jafri S.M. H. (as typus) in Fl. Lib. 44: 5. 1977). (Fig. 1).

Epitypus: Libia, Cirenaica: tra Agedabia e Antelat a Bag Lia (2802), 10/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli (FI).

Accepted name: *Hypecoum aequilobum* Viv.

Other material: Libia, Cirenaica: El Grein presso Marsa el Brega (2801), 08/04/1934. Leg. Pampanini & R.E.G. Pichi Sermolli (FI).

Note: the Epitypus is under *Hypecoum aequilobum* Viv. var. *stenolobum* Pamp. [an invalid name since Pampanini 1936: 26, recorded it as “..*Nomen novum*, *H. aequilobum* Viv. Fl. Libyc. Specim. p. 7, tab. 3. 1824 (*sensu stricto*)”, thereby indicating the autonym of *H. aequilobum* (*H. aequilobum* var. *aequilobum*). Given that the original collection, kept in GE, cannot be located (S. Peccenini in *litteris* 2016), the typus is represented by the only surviving element of original material: table 3, fig. 3, details e, f, g, h of Viviani, Fl. Libyc. Specim. Since the Lectotypus could be ambiguous, we designate also as Epitypus the specimen R. Pampanini & R.E.G. Pichi Sermolli 2802.

New taxon: *Hypecoum aequilobum* var. *platylobum* Pamp. in Arch. Bot. XII(1): 26. (1936a); Prodr. Fl. Cir. p.: 209 (sub *H. aequilobum* p.p.: specim. Zanon, Maugini). 1930.



Fig. 1. *Hypecoum aequilobum* Viviani, Figure 3, details e, f, g, h of table III, published in *Florae Libycae specimen*, 1824, Lectotypus, kept in the library of Centro Studi Erbario Tropicale of Florence.

Type: [Libya], Cirenaica, Bengasi: Palmeto (Monastir), 06/03/1922. Leg. A. Maugini, (FI003911, Lectotypus designated here).

Other syntypi from the original collection: [Libya], Cirenaica, Bengasi: Gariunes, (623), 26/04, FI003912; Be.: Punta Giuliana (579[3]), 21/03/1916, FI003913. Leg. V. Zanon. Be.: Palmeto, primavera 1921, FI003910; Be.: fra Selmani e Suani Osman, 12/02/1922, FI003908; Be.: Hauari, 02/ 1922, FI003909. Leg. A. Margini. (All in FI).

Accepted name: *Hypecoum aequilobum* Viv. s.l.

Note: the collection assembled by Pampanini in 1933-34, which was not mentioned in the publication by Pampanini (1938), even though it was part of the original collection, is composed of the following specimens: Cirenaica: Tra Agedabia e el Agheila, Melch en Nogra (2797), 15/03/1933. Leg. R. Pampanini. C.: Tra Agedabia e Antelat a Bag Lia (2798), 10/04; C.: el Gioch tra Agedabia e Saumnu (2799), 10/04.; C.: ez Zuetina a nord est di Agedabia (2800), 11/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (all material in FI).

New taxon: *Hypecoum pendulum* var. *zoddae* Pamp. in Arch. Bot. VIII: 111. (1932).

Type: Holotypus: [Libya], Tripolitania, Garian: In cultis, Garian, 700 m., 24/3/1931. Leg. G. Zodda, (FI)

Accepted name: *Hypecoum pendulum* L. s.l.

Note: the material cited is not present in FI under this name, but sub. *H. pendulum* L. var. *paradoxum* Pamp. (a *nomen nudum*) with the same data handwritten by Pampanini himself. Initially, Pampanini probably decided on the first name and only later preferred the second in honour of Zodda, but did not leave any written notes to this effect. There is no doubt that this is the same taxon, seeing that the description in the protologue also corresponds perfectly even though the lack of flowers has complicated identification.

New taxon: *Papaver rhoeas* var. *trichocarpum* Pamp. in Bull. Soc. Bot. Ital. (1-3): 13. (1914a); Pl. Tripol.: 115. (1914e).

Type: Holotypus: [Libya], Tripolitania, Tarhuna: Uadi Tersiva, pianura a S.W. di Ras Maader (2082), 01/04/1913. Leg. R. Pampanini, (FI).

Accepted name: *Papaver rhoeas* L., see Dobignard & Chatelain 5: 53. 2013.

Note: this name does not appear among those mentioned by Kadereit J.W. 1988.

New taxon: *Roemeria hybrida* f. *latiloba* Pamp. in Bull. Soc. Bot. Ital. (1-3): 13. (1914a); Pl. Tripol.: 116. (1914e).

Type: [Libya], Tripolitania, Tarhuna.: Ras Bu Tauil (4463), 21/03/1913. Leg. R. Pampanini. (FI, Lectotypus designated here).

Other syntypi from the original collection: [Libya], Tripolitania, Tarhuna: Abiar Milgha (412), 28/02; T., Ta.: Uadi Msaaba a Kars Doga (867), 18/03; T., Ta.: Ras Ghenai (1557), 25/05; T., Garian: Ras Bu Ganus (3937), 27/04/1913. Leg. R. Pampanini. (All syntipi in FI).

Accepted name: *Roemeria hybrida* (L.) DC. subsp. *hybrida*, see Dobignard & Chatelain 5: 56. 2013.

Note: this last work improperly considers *Roemeria hybrida* (L.) DC. var. *hybrida* which, however, Pampanini never established. The authors probably found and took this error from the Flora of Libya, Jafri (1977b) or from Flora dell'Afrique du nord (1964).

New taxon: *Roemeria tenuifolia* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 26: 211-12. (1919).

Type: [Libya], Cirenaica: Fuehat (79), marzo 1918. Leg. V. Zanon (FI, Lectotypus designated here)

Other syntypi from the original collection: Egitto, Regione mediterranea, molto comune nei coltivi dell'antica marea verso Alessandria, anche nel deserto di Ramle di Abukir, dell'Istmo di Suez, del Sinai, Marzo e Aprile 1867. Leg. Figari Bey (FI).

Accepted name: *Roemeria hybrida* (L.) DC. subsp. *hybrida*, see Dobignard & Chatelain 5: 56. 2013; also in Le Floch & al. (2010).

Note: in Fl. Lib. 40: 8. 1977 *Roemeria tenuifolia* Pamp. = *Roemeria hybrida* (L.) DC. var. *hybrida*. Although Jafri (Jafri 1977b) considers it a synonym, he points out the main distinguishing characters: "... has almost glabrous fruits (2.5-4 cm long) on robust thickened pedicels up to 7 cm long", but does not consider them sufficient for recognising a new taxon.

For Boulos, as comb. e stat nov. *R. hybrida* DC. var. *tenuifolia* (Pamp.) Boulos, in Candollea 34(1): 37. 1979; moreover, in 1933, Pampanini declared a comb. et status nov. for this taxon: *Roemeria hybrida* DC. var. *tenuifolia* (Pamp.) Pamp. (on the FI herbarium card). He never published it as such, but as *R. hybrida* DC. f. *tenuifolia* (Pamp.) Pamp., Pampanini (1936a).

***Plantaginaceae* (P. Cuccuini & C. Nepi)**

New taxon: *Plantago albicans* var. *augustifolia* f. *syrtica* Pamp. in Arch. Bot. XII(1): 43. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3) 75. (1938).

Type: Holotypus: Libia, Cirenaica: fra Agheila e Maaten Giofer (7451), 15/03/1933. Leg. R. Pampanini, (FI003820).

Accepted name: *Plantago albicans* L.

New taxon: *Plantago albicans* var. *desertica* Pamp. in Agric. Colon., 10: 365. (1928).

Type: [Libya], Cirenaica: Fra l'Uadi Faregh e Maatan Risam, 18/04/1928. leg. G. Krüger, (FI003824, Lectotypus designate here).

Isolectotypi: (FI003821, FI003822, FI003823).

Accepted name: *Plantago albicans* L., see Siddichi M. A. in: Fl Lib.: 67: 21-22. 1979; also Dobignard & Chatelain 5: 101. 2013.

Note: two of the 4 specimens mentioned above carry labels signed by Pampanini as well as the original ones, handwritten and signed by Krueger (FI003823, FI003824).

New taxon: *Plantago albicans* var. *lanata* Pamp. in Bull. Soc. Bot. Ital.: 18. (1914a); Pl. Tripol.: 226. (1914e).

Type: Holotypus: [Libya]: Tripolitania, Tarhuna: Pianura dell'Uadi Ksea (2405), 07/04/1913. Leg. R. Pampanini, (FI003825).

Accepted name: *Plantago albicans* L.

Note: although modern, even recent, Floras, indices and nomenclatural catalogues carry descriptions that include many previously described varieties under the same species, the presence of such different entities in similar habitats suggests the need for an in-depth investigation over the territory.

New taxon: *Plantago albicans* var. *macropoda* Pamp. in Bull. Soc. Bot. Ital. (1-3): 18. (1914a); Pl. Tripol. p.: 226. (1914e).

Type: Holotypus: [Libya], Tripolitania, Tripoli: Uadi Megenin presso Ain Zara (3508), 22/04/1913. Leg. R. Pampanini, (FI003826).

Accepted name: *Plantago albicans* L.

New taxon: *Plantago coronopus* var. *commutata* f. *pubescens* Pamp. in Arch. Bot. XII(1): 44. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Libia, Cirenaica: Sidi Ahmed el Magrun, a sud di Bengasi (7500), 17/03/1933. Leg. R. Pampanini, (FI003830, Lectotypus designated here).

Other syntypi from the original collection: Cirenaica: Msus (7501), 20/03, (FI003907); C., Mechili : Uadi Ramla (7502), 27/03/1933. Leg. R. Pampanini, (FI003827).

Accepted name: *Plantago weldenii* Rchb. s.l.

Note: specimen 7500 carries a piece of newspaper with the name of the new taxon handwritten in blue pencil by Pampanini.

New taxon: *Plantago coronopus* var. *commutata* f. *villosa* Pamp. in Arch. Bot. XII(1): 44. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Libia, Cirenaica: fra Derna e Mechili: Uadi el Hescia (7505), 10/4/1933. Leg. R. Pampanini, (FI003829, Lectotypus designated here).

Other syntypi from the original collection: Libia, Cirenaica: Agheila, giardini (7504), 15/03, (FI003828); C.: fra Sidi Frag e el Magrun a nord di Agedabia (7503), 11/03/1933, Leg. R. Pampanini, (FI003934); (all material in FI).

Accepted name: this material is an intermediate form between *P. crypsoides* Boiss. and *P. weldenii* Rchb., probably close to *P. weldenii* Rchb., sensu Dobignard & Chatelain (2013).

Note: the label for no. 7503 (FI003934) does not indicate "... e El Magrun", moreover a piece of newspaper on the specimen carries the name of the new taxon handwritten in blue pencil by Pampanini.

***Plumbaginaceae* (G. Domina)**

New taxon: *Limonium bonduellei* f. *gigantifolia* Corti in Flora e Vegetazione del Fezzan e della Regione di Gat. Reale Società Geografica Italiana 1: 1-203. 1942.

Type: [Libya], Fezzan Settentrionale, sul Gargáf a nord di Brach, (1233), 14/02/1934, Leg. R. Corti (FI003575, Lectotypus designated here).

Other syntypi from the original collection: Fezzan occidentale, valico tra Elbárcat e l'U. Iséien- nell'Uadi in roccia, verso Elbárcat (1231), 13/03/1934. Leg. R. Corti.

Accepted name: *Limonium bonduellei* (Lestib.) O. Kuntze.

Note: the syntypus: Fezzan occidentale, valico tra Elbárcat e l'U. Iséien- nell'Uadi in roccia, verso Elbárcat (1231), 13/03/1934. Leg. R. Corti, cited in the original publication, was not found in FI.

New taxon: *Limonium teuchirae* Brullo in Webbia 33(1): 148. 1978.

Type: Holotypus (CAT12956) [Libya, Cyrenaica], Sebchet el Cuz (Bengasi), 15/09/1974. Leg. S. Brullo & F. Furnari. (by Brullo in Webbia 33(1): 148. 1978).

Isotypi: (CAT12957-CAT12957-13), (FI003916).

Accepted name: *Limonium teuchirae* Brullo.

New taxon: *Limonium vaccarii* Pignatti ex Brullo in Webbia 33(1): 148. 1978.

Type: Holotypus: [Cyrenaica]: Tobruk, 23/05/1912 (147). Leg. A. Vaccari (PAD).

Isotypes in FI and in PAL.

Accepted name: *Limonium vaccarii* Pignatti ex Brullo.

Note: taxon described for the first time with the illegitimate name of *Statice delicatula* Béguinot & Vaccari (1912), non Girard. (1844). Pignatti (1963) published it as *Limonium sibthorpiatum* subsp. *vaccarii*, but without a description (*nomem nudum*). Finally the taxon was re-described by Brullo (1978) who attributed the name to Pignatti. In FI, an isotype is probably lost.

New taxon: *Statice delicatula* var. *subrotundifolia* Bèg. & Vaccari in Sec. Contr. Fl. Lib.: 29. 1913.

Type: Lectotypus (designated by Brullo 1978: 146): Libia, Cirenaica, Derna in collibus aridis saxosis maritimis prope il faro, 21/10/1912, Leg. A. Vaccari, no. 148 Fl. Lyb. Exs. (PAD).

Isolectotypi: FI003576, PAD.

Accepted name: *Limonium subrotundifolium* (Bèg. & Vaccari) Brullo in Webbia 33(1): 145. 1978.

Note: collecting data: Cirenaica: Derna presso il faro, (148), 31/10/1912 (in Bibl.) 21/10/1912 (on the label).

New taxon: *Statice pruinosa* var. *hirtiflora* Cavara & Grande in Bull. Orto Bot. Univ. Napoli 9 (1): 49. 1928.

Typus: [Libya, Cyrenaica]: Costoni aridi di Porto Bardia (Marmarica), 21 febb. 1924, Leg. F. Cavara & L. Grande (FI, Lectotypus designated here).

Accepted name: *Limonium pruinatum* (L.) Chaz., Suppl. Dict. Jard. 2: 36. 1790.

Note: the specimen includes also one handwritten label with the description of the plant and taxonomic notes.

New taxon: *Statice tubiflora* var. *zanonii* Pamp. in Nuovo Gior. Bot. Ital. n.s. 24:148. (1917).

Type: [Libya], Cirenaica: Bengasi, Giok, 20/04/1916 (611), leg. V. Zanon, (FI, Lectotypus designated here).

Accepted name: *Limonium zanonii* (Pamp.) Domina in Willdenowia 41(1): 131. 2011.

Note: Giok Kebir falls within the Bengasi municipality, the different dates on the *exsiccatum* label and in the original publication is, probably, a transcription mistake. In any case, not knowing if the other specimens have been lost, we, prudently, prefer to designate it as the lectotypus of the name.

Poaceae (E. Banfi)

New taxon: *Aegilops bicornis* var. *anathera* Eig in Bull. Soc. Bot. Genève sér. 2 (19): 325. 1928.

Type: Isolectotypus: [Libya], Cyrenaica: [Benghasi] Juliana, an den Saliner, 3/04/1883.

Leg. Ruhmer s.n. (401) (by M.W. van Slageren, Wageningen Agric. Univ. Papers 94-7: 12, 145. 1994; formerly marked by von Slageren 06/1992 as *Aegilops bicornis* (Forssk.) Jaub. & Spach. var. *mutica* [Asch.] Eig).

Accepted name: *Triticum bicorne* f. *muticum* Asch. in Magyar Bot. Lapok 6: 10. 1902 (mistakenly reported as unranked in Tropicos). The synonymisation of *Aegilops* L. with *Triticum* L., phylogenetically suitable (Petersen & al. 2006; Sandve & al. 2015) although so far put into practice by only a few authors, is accepted in the new editions of the Checklist of the Italian vascular Flora (Conti & al. eds. in progress) and Flora d'Italia (Pignatti ed., in progress). Under *Aegilops* the legitimate name at variety rank (priority) seems to be *Ae. bicornis* var. *mutica* Post in Fl. Syria: 901. 1896 and such name is obviously based on a different type material (Haifa, Israel).

Note: this taxon is not more than a mere expression of the normal intrapopulational diversity of the species referring to the degree of development of awns (from complete to absent), especially in proximal and median spikelets.

New Taxon: *Aristida obtusa* f. *arenosa* Corti in Flora e Vegetazione del Fezzan e della Regione di Gat. Reale Società Geografica Italiana 1: 43. 1942.

Type: Holotypus: Fezzan Settentrionale, tra Bir el Ghelania e Brach, presso l'Uadi Issa, ca. 400 m. Leg. R. Corti (FI).

Accepted name: *Stipagrostis obtusa* (Delile) Nees.

Note: this form falls within the diversity pattern of the taxon described as *Aristida foexiana* Maire & Wilczek in Bull. Soc. Hist. Nat. Afrique N. xxv: 322. 1934 and also annotated in FI as *Aristida obtusa* var. *pubescens* Andreansky (?). In all cases it fits the normal range of variation of the species.

New taxon: *Avena beguinotiana* Pamp. in Arch. Bot. XII (2): 18. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, 8 (3): 60. (1938).

Type: Libia, Cirenaica: Amseat a sud di Bardia (361), 24/03/1933. Leg. R. Pampanini (marked by B. Baum 1973) (FI, Lectotypus designated here).

Other material, Paralectotypi (marked as such by B. Baum 1973): Cirenaica, Sirte: Steppa di Agheila (360), 14/03/1933. Leg. R. Pampanini. C., Sirte: El Grein presso Marsa Brega (362), 8/04/1934; C.: Sahabi (Saniet el Hamar) a sud est di Agedabia (363), 9/04; C.: tra Agedabia e Antelat a Bag Lia (364), 10/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli (all material in FI).

Accepted name: *Avena ventricosa* Balansa ex Cosson (Valdés & Scholz 2009).

Note: Scholz H. in Willdenowia 7 (2): 420. 1974b refers to the type in FI but no other details are provided.

New taxon: *Brachypodium distachyon* var. *genuinum* f. *mite* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Pl. Tripol.: 13. (1914e).

Type: [Libya], Tripolitania, Garian: Bu Gheilani (4553), 24/04/ 1913. Leg. R. Pampanini (FI, Lectotypus designated here).

Other material, Syntypi: Tripolitania, Tarhuna: Uadi (Tersiva) Tenziua nelle steppe (1952), 1/04/1913; T., Mesellata: Cussabat sul Ras Gelà (4400), 13/04/1913. Leg. R. Pampanini, (all material in FI).

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: considered by authors till now as a synonym of *B. distachyon*.

New taxon: *Brachypodium distachyon* var. *genuinum* f. *typicum* subf. *puberulum* Pamp. in Arch. Bot. XII(1): 18. (1936a). Rend. Sem. Fac. Sc. Univ. Cagliari, VIII(3): 60. (1938).

Type: Libia, Cirenaica, Martuba, a sud est di Barce: Uadi el-Bgar (410), 8/04/1933. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypi: Cirenaica, Mechili: Uadi Ramla (409), 27/03/1933; Cirenaica, Cirene: es Saf-Saf, Uadi Bu Meddas (411), 18/04/1933. Leg. R. Pampanini.

(Unpublished) Cirenaica, Cirene: Uadi Buten (412), 18/04/1933. Leg. R. Pampanini, (all material in FI).

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: this taxon seems not to have been taken into account by systematic investigations and presumably it falls within the normal diversity range of the species.

New taxon: *Brachypodium distachyon* var. *hispidum* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Pl. Tripol.: 14. (1914c).

Type: [Libya], Tripolitania, Mesellata: Cussabat, Ras Gelà (3076), 13/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypi: Tripolitania, Garian: Bu Gheilan (3612), 24/04/1913; Tripolitania, Garian: Uadi Garian (3859), 26/04/1913. Leg. R. Pampanini.

(Unpublished) Tripolitania, Mesellata, Colline a N-W di Cussabat (2992), 12/04/1913. Leg. R. Pampanini, (all material in FI).

Accepted name: *Brachypodium distachyon* (L.) P. Beauv. var. *hispidum* Pamp. (Weiller M. in Maire R. & Weiller M., Fl. Afrique N.: 280. 1955).

Note: separable from the nominal variety by glumes and lemmas hairy on entire surface.

New taxon: *Brachypodium distachyon* var. *hispidum* f. *confusum* Pamp. in Bull. Soc. Bot. Ital. 1914(5): 49. (1914b)

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: in FI there is a sheet that bears following annotations: Cyrenaica, Uadi el-Kuf, fra Gasr Beni Gdam e Sidi Abd el Uahed (no. 413), 6/04/1933. Leg. R. Pampanini. It should be highlighted that the original material upon which Pampanini based his description of this taxon is not known.

New taxon: *Brachypodium distachyon* var. *hispidum* f. *intermedium* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a).; Pl. Tripol.: 14. (1914c).

Type: [Libya], Tripolitania, Tarhuna: Uadi Tersiva (Tenzia), Ras Maader (2044), 1/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypus: Tripolitania, Garian: Uadi Garian (4060), 29 aprile 1913. Leg. R. Pampanini.

Accepted name: *Brachypodium distachyon* (L.) P. Beauv. var. *hispidum* Pamp.

Note: it falls within the synonymy of var. *hispidum* despite Weiller M. in Maire R. & Weiller M., Fl. Afrique N.: 281. 1955, treating it as a good form. Pampanini (1938)

recombined later his taxon as *B. distachyon* P. B. var. *pubens* Beck f. *intermedium* Pamp., however without providing explanations on the matter.

New taxon: *Brachypodium distachyon* var. *hispidum* f. *pseudosubtile* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a): 11; Pl. Tripol. p.: 14. (1914c).

Type: [Libya], Tripolitania, Tarhuna, Uadi Ksea, Ras Argobinani (2414), 8/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypus: Tripolitania, Tarhuna, Uadi Sart (1753), 27/03/1913. Leg. R. Pampanini, (FI).

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: taken into consideration as a good taxon by Weiller M. in Maire R. & Weiller M., Fl. Afrique N.: 280. 1955.

New taxon: *Brachypodium distachyon* var. *velutinum* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Pl. Tripol. p.: 14. (1914c).

Type: Libia, Cirenaica, Tarhuna: Uadi Ksea, Ras Argobinani (2483), 8/04/1913. Leg. R. Pampanini (FI, Lectotypus designated here).

Other material, Syntypi: Tarhuna: Kasr Daun (4401), 7/04/1913; Garian: Ras Tecut (3805), 26/04/1913; Garian: Uadi Garian (3852), 26/04/1913; Garian: Bu Gheilani (4402), 24/04/1913. Leg. R. Pampanini, (all material in FI).

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: Pampanini's taxon is accepted by Weiller M. in Maire R. & Weiller M., Fl. Afrique N.: 281. 1955.

New taxon: *Brachypodium distachyon* var. *velutinum* f. *gussonei* Pamp. in Arch. Bot. XII (2): 18. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII (3): 61. (1938).

Type: Libia, Cirenaica: Slonta, steppa sassosa (423), 17/04/1933. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI, Lectotypus designated here).

Other material, Syntypi: Cirenaica, Cirene, Melchifaf (424), 7/04/1933. Leg. R. Pampanini.

Cirenaica, Cirene: Uadi Belgadir (426), 26/04/1934; Cirenaica, El Beda: Uadi Uardama (427), 2/05/1934; Cirenaica, El Beda: Uadi Scisu (428), 7/05/1934; Cirenaica: Derna (425), 21/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Accepted name: *Brachypodium distachyon* (L.) P. Beauv.

Note: because of the lack of a recent systematic investigation, at present this name is accepted as a synonym of *B. distachyon*. The intent by the author of establishing the new form is clearly expressed in the sheet label of Lectotypus.

New taxon: *Bromus chrysopogon* Viv. in Fl. Libyc. Spec.: 4. t. 2. 1824 [before August 1824]

Type: Neotypus: Cirenaica, Merg: Sidi Gibrin, 17/03/1922. Leg. A. Maugini, det. R. Pampanini as *Bromus scoparius* L. var. *psilostachys* Hal., (by Scholz H., Willdenowia 7 (2): 409. 1974a) (FI).

Accepted name: *Bromus chrysopogon* Viv. (Valdés & Scholz 2009).

New taxon: *Bromus fasciculatus* f. *parlatorei* Pamp. in Arch. Bot. XII (2): 18. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII(3): 61. (1938).

Type: Libia, Cirenaica, fra Bir Acheim e Mechili: l.d. Bir Zeidan (470), 26/03/1933. Leg. R. Pampanini (FI, Lectotypus designated here).

Other material, Syntypi: Cirenaica, Bir Acheim-Acroma: l.d. Sedra (468), 22/03/1933; Cirenaica fra Tobruk e Bardia: l.d. Sidi Bu Amud (469), 23/03/1933. Leg. R. Pampanini, (all material in FI).

Accepted name: *Anisantha fasciculata* (C. Presl) Nevski (Valdés & Scholz 2009).

Note: Pampanini (loc. cit.) identifies his plant with *Bromus fasciculatus* f. b of Parlatore (Fl. It. I: 411. 1850) who provides a short description of this variant but not the name: “*spiculis pubescentibus, palea superior longius ciliata*”. This morphotype, the same as the Libya material in FI, possibly marks the southern portion of the Mediterranean range of the species, which northwards includes at least Sicily and Pantelleria.

New taxon: *Bromus hordeaceus* var. *molliformis* f. *villosus* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Pl. Tripol. p.: 16. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tarhuna: Uadi Msaaba a Kasr Doga, nell’acquitrinio (972), 18/03/1913. Leg. R. Pampanini (FI). (Indicated by C. Steinberg in Bot. Jahrb. Syst. 102 (1-4): 419. 1981).

Accepted name: *Bromus hordeaceus* L. subsp. *molliformis* (Billot) Maire & Weiller.

Note: the specimen, as annotated by H. Scholz (revision 1971, FI in sched.), is too young to be definitively determined.

New taxon: *Bromus macrostachys* f. *pubescens* Pamp. in Arch. Bot. XII (1): 18. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII (3): 61. (1938).

Type: Libia, Cirenaica, el-Beda, Uadi Scisu (495), 07/05/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI, Lectotypus designated here).

Other material, Syntypi: Libia, Cirenaica, Barce: l.d. Sidi Ahmed Cheila (488), 06/04/1933. Leg. R. Pampanini. Cirenaica, Derna: Uadi Naga (489), 21/04/1934; Cirenaica: Lamluda; Cirenaica, el-Beda: Uadi Messaf-saf Ain Legmeila (490), 22/04/1934; Cirenaica, el-Beda, Uadi El Kuf: l.d. Bu Breica (493), 27/04/1934; Labrach [el-Abrach on label], Mghernes, (494), 04/05/1934; Slonta, macchia (492), 25/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (all material in FI).

Accepted name: *Bromus alopecuros* L. subsp. *biaristulatus* (Maire) Acedo & Llamas (Acedo C. & Llamas F., Fl. Medit. 4: 203-212. 1994).

Note: the current synonym (basionym) is *Bromus lanceolatus* Roth subsp. *biaristulatus* Maire. The specimen collected at Lamluda is not in FI.

New taxon: *Bromus rubens* f. *intermedius* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Pl. Tripol.: 17. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tarhuna: Colline a est di Kasr Tarhuna (1834), 28/03/1913. Leg. R. Pampanini, (FI). (Indicated by C. Steinberg in Bot. Jahrb. Syst. 102 (1-4): 422. 1981).

Accepted name: *Anisantha rigida* (Roth) Hyl. (Valdés & Scholz 2009; marked as *Bromus rigidus* Roth by K. Ammann, 14/12/1990).

Note: this taxon has nothing to do with *Anisantha rubens* (L.) Nevski (\equiv *Bromus rubens* L.) which bears much smaller spikelets, glumes and lemmas.

New taxon: *Ctenopsis pectinella* var. *pubescens* Pamp. in Bull. Soc. Bot. Ital. (1-3): 11. (1914a); Fl. Tripol.: 19. (1914c).

Type: [Libya], Tripolitania, Uadi Teziu(v)a (Tersiva) nella steppa (1953), 1/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypi: Tripolitania, Tarhuna: Colline a E di Kasr Tarhuna (1845), 28/03/1913; idem (2113), 4/04/1913; Tripolitania: Kasr Daun (2294), 7/04/1913. Leg. R. Pampanini, (all material in FI).

Accepted name: *Festuca pectinella* Delile (\equiv *Ctenopsis pectinella* [Delile] De Not. \equiv *Vulpia pectinella* [Delile] Boiss.).

Note: nowadays *Ctenopsis* De Not. and *Vulpia* C.C. Gmel. are better regarded as sections of *Festuca* L. (Soreng & al. 2015).

New taxon: *Dactylis glomerata* var. *spicata* Pamp. in Arch. Bot. XII (2): 19. (1936a) [*D. glomerata*, Prod. Fl. Cir. p. 116, var. *hispanica*, Prod. Fl. Cir. p. 116 (p.p. specim Cassinera)]; Rend. Sem. Fac. Sc. Univ. Cagliari, VIII(3): 61. (1938).

Type: Libia, Cirenaica, Umm er-Rzem a sud est di Barce, Uadi Suenia (622), 18/04/1934, FI003601. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (Lectotypus designated here).

Other material, Syntypi:

Published by Pampanini (1938): Cirenaica, Naughia a sud est di Bengasi (611), 10/03/1933, FI003606; Cirenaica, fra Bengasi e Soluch, Giardina (612), 10/03/1933, FI003607; Cirenaica, Apollonia, l. d. Rgua (618), 11/04/1933, FI003613; Cirenaica, fra Derna e Mechili: l. d. Siret Medanaat (616), 10/04/1933, FI003512; Cirenaica, Martuba, Uadi Bgar (615), 08/04/1933, FI003611; Cirenaica, Marmarica, fra Tobruk e Bardia, Uadi Sahal (613), 23/03/1933, FI003608. Leg. R. Pampanini.

Cirenaica, tra Bengasi e Agedabia, Sidi Ahmed el-Magrun (619), 07/04/1934, FI003614; Cirenaica, Uadi Scechaba (625), 01/05/1934, FI003598; Cirenaica, Messa, Uadi Tmista (624), 29/04/1934, FI003599; Cirenaica, Messa a ovest di Cirene, Sfonta (628), 08/05/1934, FI003595; Cirenaica, Beda, Uadi Madfa (626), 01/05/1934, FI003597; Cirenaica, Uadi Msuria (629), 10/05/1934, FI003604; Cirenaica, Umm er-Rzem a sud est di Barce (621), 18/04, FI003603; Cirenaica, Uadi Scisu (627), 07/05/1934, FI003596; Cirenaica, Chersa (620), 16/04/1934, FI003602; Cirenaica, el-Ghegab a sud est di Cirene, steppa a Poterium (623), 28/04/1934, FI003600; Cirenaica, fra Gubba e l'Uadi Latrun: l.d. Argub Dasc (630), 14/05/1934, FI003615. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Cited by Pampanini (1936) in the protologue: Cirenaica, Marmarica, Tobruk, 1918, Leg. F. Cassinera. Cirenaica, Bengasi, Karmu, 28/02; Bengasi, fra Guarscià e Gariunes, 10/03; Bengasi, Suani Bazar, 10/03; Bengasi, Rahba, 13/03; Bengasi, fra Ganfuda e Suani Tica, 26/03; Regima, primavera; Bengasi, Sidi Kalifa, primavera; Bengasi, Lete, primavera; Bengasi, Ganfuda, primavera; Bengasi, Selmani, primavera; Bengasi, Kuebia, primavera; Bengasi, Kseibia, primavera; Derna, primavera 1922. Leg. A. Maugini, (all material in FI).

Unpublished: el-Gubba (617), 07/04, FI003610; Umm er Rzem (614), 08/04/1933,

FI003609. Leg. R. Pampanini; tra Barce e Tocra Bu Goeir (613), 15/5/1934, FI003605.
Leg. R. Pampanini & R.E.G. Pichi Sermolli. (FI).

Accepted name: *Dactylis glomerata* L.

Note: the pattern of diversity in *D. glomerata* is far from being understood, especially in the North African sector of its range. The proposal of even specific rank (*Dactylis spicata* [Pamp.] Guglielmo & Scalia in Boll. Accad. Gioenia Sci. Nat. Catania 18 [325]: 234. 1985) is currently devoid of any justification.

New taxon: *Dactylis glomerata* var. *spicata* f. *intermedia* Pamp. in Arch. Bot. XII (2): 19. (1936a) (*D. glomerata* var. *hispanica*, Prod. Fl. Cir, p. 117 p.p. specim. Zanon, Maugini); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII (3): 61. (1938).

Type: Libia, Cirenaica, Cirene: Ghagab a sud est di Cirene, steppa a *Poterium* (640), 28/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003656, Lectotypus designated here).

Other material, Syntypi:

Published by Pampanini (1938):

Cirenaica, fra Tocra e Tolmeta (636), 28/04/1933, FI003648; Cirenaica, Slonta (635), 17/04/1933, FI003647; Cirenaica, Slonta, steppa a *Poterium* (634), 17/04/1933, FI003646; Cirenaica, Derna, Uadi Naga (633), 09/04/1933, FI003645; Cirenaica, Martuba, Uadi Bgar (632), 08/04/1933, FI003644. Leg. R. Pampanini.

Cirenaica, Cirene, Uadi Hofra (645), 05/05/1934, FI003661; Cirenaica, Messa, Gasr Zaarura (641), 03/05/1934, FI003657; Cirenaica, Beda, l.d. Sfeiat (642), 04/05/1934, FI003658; Cirenaica, Uadi Scisu (646), 07/05/1934, FI003662; Cirenaica, el-Abrach, Mghernes (643), 04/05/1934, FI003659; Cirenaica, el-Abrach, Mghernes, macchia (644), 04/05/1934, FI003660; Cirenaica, fra Gubba e Uadi Latrun, l.d. Argub Dasc (648), 14/05/1934, FI003664; Cirenaica, Uadi Derna (647), 12/05/1934, FI003663; Cirenaica, Bomba, l.d. El Gefar (638), 8/4/1934, FI003650; Cirenaica, fra Gubba e Uadi el-Atrun, l.d. Argub Gazal (649), 14/05/1934, FI3665; Cirenaica, Marana a est di Barce steppa a *Artemisia* (639), 25/04/1934, FI003651; Cirenaica, tra Bengasi e Agedabia Sidi Ahmed el-Magrun (637), 7/4/1934. Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003649).

Cited by Pampanini (1936) in the protologue: Cirenaica, Bengasi: [between] due Palme e Benina (452), 16/03; Cirenaica, Bengasi, Raaba (563), 13/04; Cirenaica, Bengasi, Cimitero nuovo, luogo ombroso (563), 20/03/1916. Leg. V. Zanon.

Cirenaica, Derna: vivaio di Derna, primavera; Cirenaica, Merg, Ridotta Zorda, 30/03; Cirenaica, Merg, piana a ovest di Merg., 09/04; Bengasi: Rahba, 15/03/1922; Cirenaica: Ma(a)tan Borgù, 06/1919 (2 campioni). Leg. A. Maugini. (all material in FI).

Accepted name: *Dactylis glomerata* L.

Note: see the discussion for var. *spicata*.

New taxon: *Diplachne festuciformis* H. Scholz in Willdenowia 11(1): 98. 1981.

Typus: Holotypus: Fezzan: El Jofra, Socna, oasi artificiale, campi. Leg. C. Ricceri & H. Steinberg (sub *Puccinellia distans* Parl. aff. subsp. *festuciformis*) (FI).

Accepted name: *Diplachne uninervia* (J.Presl) Parodi.

Note: marked as holotypus by H. Scholz 1981 and reidentified as *Leptochloa fusca* subsp.

uninervia (J. Presl) N. Snow by N. Snow, 31/08/2007. The accepted name in Valdés & Scholz (2009) is *Leptochloa uninervia* (J. Presl) Hitchc. & Chase, where the choice of the specific rank is undoubtedly suitable. However, it was demonstrated (Hilu & Alice 2001; Peterson & al. 2012) that *Diplachne* P. Beauv. and *Leptochloa* P. Beauv. are monophyletic, non-sister lineages, so Soreng & al. (2015) have provided the final separation of the two genera in the subtribe Eleusininae. These are easily distinguished by the synapomorphies of the spikelet that is dorsally compressed in *Diplachne*, laterally compressed in *Leptochloa*.

New taxon: *Koeleria pubescens* var. *tripolitana* Domin in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 24. (1914c).

Type: [Libya], Tripolitania, Tripoli: Ain Zara (3464), nell'acquitrinio, 22/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypus: Tripolitania, Garian: uadi Garian (4345), 07/05/1913. Leg. R. Pampanini, (FI).

Accepted name: *Rostraria litorea* (All.) Holub

Note: mistakenly reported in Valdés & Scholz (2009) as *Rostraria pubescens* (Lam.) Trin.

New taxon: *Koeleria salzmannii* var. *cossoniana* f. *glabra* Pamp. in Arch. Bot. XII (2): 19. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII(3): 62. (1938).

Type: Libia, Cirenaica: Tra Agedabia ed el-Agheila l.d. Melch en Nogra, 15/03/1933 (801), 15/03/1933. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypi: Cirenaica, Marsa Brega; Cirenaica, Agedabia, Haseiat, l. d. Bag Lia; Cirenaica, fra Agedabia e Sonnu; Cirenaica, Zuetina 1933-34. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Accepted name: *Rostraria salzmannii* (Boiss.) Holub (Dobignard & Chatelain 2010).

Note: in FI there is the lectotype (no. 801), while the remaining original material, cited by Pampanini (1938), is missing.

New taxon: *Koeleria salzmannii* var. *cossoniana* f. *lobulata* Domin in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 25. (1914c).

Type: Holotypus: [Libya], Tripolitania, Garian: Bu Gheilan, nell'acquitrinio (3670), 24/04/1913. Leg. R. Pampanini, (FI).

Accepted name: *Rostraria salzmannii* (Boiss.) Holub (Dobignard & Chatelain 2010).

Note: further original material referable to this taxon doesn't seem to exist.

New taxon: *Koeleria salzmannii* var. *cossoniana* f. *villosa* Pamp. in Arch. Bot. XII (2): 20. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII (3): 62. (1938).

Type: Libia, Cirenaica, Ridotta Tilger a 10 km da Agedabia, (808), 07/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI, Lectotypus designated here).

Other material: Syntypus: Cirenaica, tra Agedabia ed el-Agheila: l.d. Melch en Nogra (807), 15/03/1933. Leg. R. Pampanini, (FI).

Accepted name: *Rostraria salzmannii* (Boiss.) Holub (Dobignard & Chatelain 2010).

New taxon: *Koeleria salzmannii* var. *longiflora* Domin in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 26. (1914c) (in herb. sub var. *longiglumis*).

Type: [Libya], Tripolitania, Tarhuna: Abiar Milgah, sul Ras Ter (1098), 19/03/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypi: Tripolitania, Tarhuna: Pianura di Kam el-Gaar (1877), 31/03/1913; Tripolitania, Tarhuna: Uadi Msaaba (839), 18/03/1913; Tripolitania, Tarhuna: Abiar Milgah a Migi (1059), 19/03/1913. Leg. R. Pampanini, (all material in FI).

Accepted name: *Rostraria salzmannii* (Boiss.) Holub

Note: in Bull. Soc. Bot. Ital. 1914 is published only the sheet no. 1877, but subsequently in Pl. Tripol.: 26 also the specimens 839, 1059 and 1098 (lectotype) are published; they all belong to the original material. In the same work Pampanini refers about the Domin's opinion that two forms are recognizable, the first one "f. *minor*" labelled "*aristulis brevioribus*" [shorter awns], corresponds to the sheet 839, the second one, without a name but with a short description, corresponds to the sheet no. 1059.

New taxon: *Koeleria salzmannii* var. *longiflora* subvar. *aurata* Pamp. in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol. p: 26. (1914c). (in herb. sub *K. salzmannii* var. *cossoniana* subvar. *aurata* Pamp).

Type: [Libya], Tripolitania, Tarhuna, Ras Ghenai (4383), 25/03/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material: Syntypus: Tripolitania, Tarhuna, Colline a est di Kasr Tarhuna (1835), 28/03/1913. Leg. R. Pampanini, (FI).

Accepted name: *Rostraria salzmannii* (Boiss.) Holub

New taxon: *Koeleria salzmannii* var. *pampaninii* Domin in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 26. (1914c).

Type: [Libya], Tripolitania, Tripoli: Ain Zara, nell'acquitrino (3466), 22/04/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material: Syntypus: Tripolitania, Tarhuna, Uadi Ksea, Ras Argobinani (2422), 08/04/1913. Leg. R. Pampanini, (FI).

Accepted name: *Rostraria salzmannii* (Boiss.) Holub

Note: the specimen no. 2422 is dubitatively cited by Pampanini (1914b) but is probably lost in FI; the lectotype sheet bears an autograph label of Domin.

New taxon: *Lagurus ovatus* f. *oblongus* Pamp. in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 27. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tripoli, Suani Beni Aden, nella steppa [2(1)4], 25 febbraio 1913. Leg. R. Pampanini, (FI).

Accepted name: *Lagurus ovatus* L. subsp. *ovatus* (marked by Messeri 1942, as *Lagurus ovatus* subsp. *communis* var. *genuinus* Messeri).

Note: in Pampanini's Pl. Tripol. (1914), certainly in error, the sheet is indicated as no. 214 instead of 24; on the other hand all publication data fit perfectly the data labelled on the specimen sheet, which also represents the only evidence for this taxon in FI.

New taxon: *Libyella* Pamp. in Bull. Soc. Bot. Ital.: 150. 1925.; Libya, I: 68-74. 1927.

Type: *Libyella cyrenaica* (Durand & Barr.) Pamp., basionym: *Poa cyrenaica* Durand & Barratte Fl. Lib. Prodr. I: 268. 1910.

Accepted name: *Poa* L. (Soreng & al. 2015).

Note: monospecific genus, see *Poa cyrenaica*.

New taxon: *Oryzopsis coerulescens* var. *grandis* Pamp. in Arch. Bot. XII (2): 20. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari, VIII(3): 62. (1938).

Type: Holotypus: Libia, Cirenaica: Ain Mara (926), 28/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI).

Accepted name: *Piptatherum holciforme* subsp. *longiglume* (Hausskn.) Freitag (Valdés & Scholz 2009).

Note: marked by H. Scholz (1971) as the typus of *Oryzopsis coerulescens* var. *grandis* Pamp. The same author in Willdenowia 7(2): 420. 1974 refers to the typus in FI but doesn't provide any information on collecting data, making the typification invalid.

New taxon: *Poa cyrenaica* Durand & Barratte in Fl. Lib. Prodr. I: 268. 1910.

Type: [Libya], Cyrenaica, Bengasi (379), 10/02/1883. Leg. Ruhmer (FI, Lectotypus designated here).

Accepted name: *Poa cyrenaica* Durand & Barr.

Note: the sheet no. 379 was labelled (in 2014) by R. Soreng (US) as isotypus, but he never designated a type (Soreng *in litteris* 2014); likewise M. Röser (Hal), who has been involved in studies on *Libyella*, didn't designate any type for this genus (Röser *in litteris* 2014).

New taxon: *Poa vaginata* Pamp. in Arch. Bot. XII (2): 20. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII (3): 62. (1938).

Type: Holotypus: Libia, Cirenaica, Umm er Rzema sud est di Barce: Uadi Suenia (1060), 18/4/1934. Leg. R Pampanini & R.E.G. Pichi Sermolli, (FI003616).

Accepted name: *Poa vaginata* Pamp. (Valdés & Scholz 2009; Dobignard & Chatelain 2010).

Note: in Sherif & Siddiqi (1988) curiously two other specimens are cited that were collected by Pampanini and not cited by him. The reason is due to the fact that the two mentioned specimens were identified as *P. vaginata* not by Pampanini but by H. Scholz (1971) which had borrowed them. Although the authors of Poaceae in Flora of Libya, refer to them at FI, they had not seen them, but simply consulted the *specimina visa* of Scholz's paper as is also evident from the citation of that work in their bibliography, used to make the record of this taxon in the Libyan flora. The same applies to the indication of the typus which is only a bibliographic citation. The two samples are: Cyrenaica, southeast of Barce, Wadi el Bgar (1024), 04.08.1933. Leg. R. Pampanini; Cyrenaica, between Derna and Mechili, Gat and Dghigh (1028), 04.10.1933. Leg. R. Pampanini (sub *Poa bulbosa* L.), which obviously are not part of the original collection.

New taxon: *Polypogon monspeliensis* f. *exilis* Pamp. in Agric. Colon., XXII: 362-63, t. I, f. 5 (recto). 1928. Considered relative to this taxon is also the material of *P. monspeliensis* Desf. indicated in Agric. Colon. XX: 457. (1926).

Type: [Libya], Cirenaica: Oasi di Giarabub, 02/06/1926 (field label), 06-07/1926 (*herbarium* label). Leg. G. Krüger, (FI, Lectotypus designated here).

Other material, Syntypi: Cirenaica, Oasi di Giarabub, 01/06 and 06/1926 (field labels concerning the same sample), 06-07/1926 (*herbarium* labels); Cirenaica, Giarabub, 24/02/1927 (field labels), 10/02/1927 (*herbarium* labels). Leg G. Krüger, (all material in FI).

Accepted name: *Polypogon monspeliensis* (L.) Desf.

Note: possibly synonym of var. *minor* Coss. & Durieu (Algeria), which is also a synonym of the species (Dobignard & Chatelain 2010).

New taxon: *Scleropoa philistaea* f. *pauciflora* Pamp. in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol.: 36. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tarhuna: Uadi Msaaba a Kars Doga, nell'acquitrinio (958), 18/03/1913. Leg. R. Pampanini, (FI).

Accepted name: *Desmazeria philistaea* (Boiss.) H. Scholz

Note: likely a depauperate individual falling within the normal variability of the species.

New taxon: *Vulpia danthonii* var. *tripolitana* Pamp. in Bull. Soc. Bot. Ital. (1-3): 12. (1914a); Pl. Tripol. p.: 39. (1914c).

Type: [Libya], Tripolitania, Garian: Kasr Garian, margini dei campi (4312), 4/05/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Other material, Syntypus: Tripolitania, Tarhuna, Uadi Sart (4397), 27/03/1913. Leg. R. Pampanini, (FI).

Accepted name: *Festuca danthonii* Asch. & Graebn.

Note: a better known synonym of Pampanini's taxon is *Vulpia ciliata* Dumort. var. *tripolitana* (Pamp.) Maire & Weiller. It represents no more than the expression of an accentuated hairiness in glumes and lemmas within the normal range of the species. For the inclusion of the species in the genus *Festuca*, see Soreng & al. (2015).

Potamogetonaceae (S. Miranda)

New taxon: *Potamogeton crispus* f. *integrifolius* Corti in Flora e Vegetazione del Fezzan e della Regione di Gat. Reale Società Geografica Italiana 1: 28. 1942.

Type: Holotypus: [Libya], Fezzan occidentale, Regione di Gat: Tunin (Gat) 2° deposito d'acqua, (1280), 700 m., 05/03/1934. Leg. R. Corti, (FI).

Accepted name: *Potamogeton crispus* L. *sensu* Fl. Lib. 114: 7-8. 1984b.

Note: on the sheet there is a small label bearing a handwritten note in pencil by Corti.

Primulaceae (P. Cuccuini & C. Nepi)

New taxon: *Anagallis linifolia* f. *candida* Pamp. in Bull. Soc. Bot. Ital. (1-3): 15. (1914a); Pl. Tripol.: 187. (1914c)

Type: Holotypus: [Libya], Tripolitania, Garian: Kasr Garian, nei campi incolti (nei maggesi [on the label]) (4130), 30/04/1913. Leg. R. Pampanini, (FI).

Accepted name: *Lysimachia monelli* subsp. *linifolia* (L.) Peruzzi see Dobignard & Chatelain 5: 168. 2013, s.l.

New taxon: *Anagallis linifolia* var. *litoralis* Pamp. in Bull. Soc. Bot. Ital. (1-3): 15. (1914a); Pl. Tripol.: 187. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tripoli: Fra Tripoli e Gargaresc (22), 14/02/1913. Leg. R. Pampanini.

Accepted name: *Lysimachia monelli* L. subsp. *monelli*, see Dobignard & Chatelain 5: 168. 2013.

New taxon: *Coris monspeliensis* var. *syrtica* f. *dentata* Pamp. in Bull. Soc. Bot. Ital. (4-9): 18. 1920.

Original material: Libia, Tripolitania: dintorni di Nalut, 1913. Leg. Capitano Antonetti.

Accepted name: *Coris monspeliensis* L. sensu Ali S. I. in Fl. Lib 6: 1-3. 1077.

Note: the *exsiccatum* came to Pampanini by means of E. Chioyenda who, in turn, had received it from General A. Zola together with further specimens collected by others in Tripolitania. The specimen, collected by a soldier, Captain Antonetti, is not present in FI, nor in RO (A. Tilia *in litteris* 2016).

Ranunculaceae (P. Cucuini & C. Nepi)

New taxon: *Adonis microcarpa* var. *intermedia* f. *lutea* Pamp. in Bull. Soc. Bot. Ital. (1-3): 14. (1914a); Pl. Tripol.: 117. (1914c).

Type: [Libya]: Tripolitania, Tarhuna: Ras Ghenai (1553), 25/03/1913. Leg. R. Pampanini, (FI, Lectotypus designated here).

Syntypi from the original collection: [Libya], Tripolitania, Mesellata: Cussabat, nelle messi (2699), 10/04; Me.: Cussabat, nei margini dei campi (2744), 10/04; Me.: sul Ras Gelà (3082), 13/04; T., Tarhuna: Ras Bu Tauil (1301), 21/04; Ta.: Uadi Tenziua, nelle messi (1971), 01/04; Ta.: Uadi Ksea sul Ras Argobinani (2509), 08/04/1913. Leg. R. Pampanini.

Accepted name: *Adonis microcarpa* DC. by C. Steinberg, (07/1970).

Note: in FI there are specimen nos. 1553 and 3082 only. In Fl. du l'Afr. du Nord, Quézel includes our taxon under *A. dentata* (Quézel 1964). Indeed he considers *A. dentata* as subdivided into three varieties: *genuina*, *intermedia* and *microcarpa* and lists a series of related subvarieties, among which the subvar. *lutea* is the one with “yellow flowers” but without specifying to which var. it refers. For this reason it was not possible to relate the names of the two taxa together (which, in any case, would refer to comb. and stat nov.).

New taxon: *Clematis flammula* var. *sancti-marini* f. *angustissima* Pamp. in Nuovo Gior. Bot. Ital. n.s. 31: 211. (1924).

Type: [Libya], Cirenaica, Regione di Merg: Uadi Umm el Anain, 28/05/1922. Leg. A. Maugini, (FI001167, Lectotypus designated here); previously quoted as Holotypus by Wang Wen-Tsai in Acta Phytotaxonomica Sinica 41(2): 158. 2003, see note.

Isolectotypus: (FI).

Accepted name: *Clematis flammula* var. *stenophylla* Heldr. ex Huntze see Wang Wen-Tsai, in Acta Phytotaxonomica Sinica 41(2): 153-158. 2003.

Note: there are two specimens in FI which carry the data for the previously mentioned taxon. The Editor for the Ranunculaceae Family, Wang Wen-Tsai (2003) examined both specimens twice (as shown by the photographs loaned on 06/05/2000 to G and on 04/07/2001 to PE).

Since the FI technician who took the photographs numbered the two images twice both times, taking the second as an attachment to the first, the Chinese scholar was probably misled and mistakenly believed that the collection consisted of two sheets somehow linked together, a situation which he did not make clear. This is not the case, as the two specimens are clearly autonomous. For this reason we are dealing with a case of mistaken identity of the type itself (see article 9.9 of ICN-McNeill & al. 2012) which consequently should not be defined as a Holotypus but rather as a Lectotypus. The lectotypus, although effectively established, consists of two distinct, unrelated specimens. One single specimen, indicated as FI001167, can therefore be designed here (2nd step) as Lectotypus (see article 9.17 of ICN-McNeil & al. 2012).

New taxon: *Ranunculus asiaticus* var. *berenicus* Pamp. in Nuovo Gior. Bot. Ital. n.s. 24: 136. (1917).

Original material: [Libya], Cirenaica: Fuehat, 03/03 (319bis); C.: Due Palme, luoghi rocciosi, 03/03, (228, 228 bis), 26/02/1916 (267). Leg. V. Zanon.

Accepted name: *Ranunculus asiaticus* L., see Dobignard & Chatelain 5: 190. 2013.

Note: the author, in Pampanini (1916), thinks that the new variety described is a hybrid between *R. asiaticus* var. *flavus* and *R. asiaticus* var. *grandiflorus*. The material is not kept in FI.

New taxon: *Ranunculus asiaticus* var. *bicolor* Pamp. in Bull. Soc. Bot. Ital. (1-3): 14. (1914a); Pl. Tripol.: 119. (1914c).

Typus: [Libya], Tripolitania, Tarhuna: Abiar Milgha, (437), 28/02/1913. Leg. R. Pampanini, (FI003792, Lectotypus designated here).

Isolotypi: (441-FI003790, 436-FI003793, 438-FI003791, 439-FI003784, 4468-FI003785).

Other syntypi from the original collection: [Libya], Tarhuna.: Abiar Milgha a Migi (4469), 28/02, (FI003789); Ta.: Abiar Milgha sul Ras Ter (1087), 19/03, (FI003787); Ta.: Kasr Tarhuna (628), 12/03, (FI003788); Ta.: Ain Scersciara (633), 14/03/1913. Leg. R. Pampanini, (FI003786).

Accepted name: *Ranunculus asiaticus* L. see Dobignard & Chatelain 5: 190. 2013; also in Fl. Lib. 108. 1984.

New taxon: *Ranunculus asiaticus* var. *grandiflorus* Bég. & Vaccari in Ann. di Bot. XII(1):105. 1914.

Original material: [Libya]: Tripolitania: Misrata nei campi arenosi e lungo la sebckha tra questa città e Ras Zurug, 06/03/1913. Leg. A. Vaccari.

Accepted name: *Ranunculus asiaticus* L. see Dobignard & Chatelain 5: 190. 2013.

Note: the material is not kept in FI; other material is present in MOD (*non vidi*).

New taxon: *Ranunculus asiaticus* var. *intermedius* Pamp. in Arch. Bot. XII(1): 25. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 65. (1938).

Type: Libia, Cirenaica: Cirene l.d. Melchifaf (2733), 7/4/1933. Leg. R. Pampanini, (FI003492, Lectotypus designated here).

Other syntypi from the original collection: Libia, Cirenaica, Cirene: es Saf-Saf (2734), 18/04/1933. Leg. R. Pampanini, (FI003493). C., Umm er Rzem, a sud est di Barce: Uadi esc Suenia (2735), 18/4/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003494).

Accepted name: *Ranunculus asiaticus* L. in Dobignard & Chatelain 5: 190. 2013.

Note: on the sheet of Lectotypus (FI003492) there is a piece of newspaper with the name of the new taxon handwritten in blue pencil by Pampanini.

New taxon: *Ranunculus asiaticus* var. *kermesinus* Pamp. in Arch. Bot. XII(1): 25. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 65. (1938).

Type: Holotypus: Libia, Cirenaica, Cirene: l.d. Melchifaf (2736), 7/04/1933. Leg. R. Pampanini, (FI).

Accepted name: *Ranunculus asiaticus* L. s.l.

Note: on the specimen there is a piece of newspaper with the name of the new taxon handwritten in blue pencil by Pampanini.

New taxon: *Ranunculus asiaticus* var. *sanguineus* f. *purpureus* Bég. & Vaccari in Schedae ad Fl. Lyb. Exs. P. 35, n° 100 (1914), *nomen nudum*.

Original Collection: [Libya], Cyrenaica: Derna, sulle colline alt. 1''-300 m. 1914; Leg. A. Vaccari (FI ?, PAD!).

Accepted name: *Ranunculus asiaticus* L.

Note: this specimen is not kept in FI.

New taxon: *Ranunculus asiaticus* var. *vulgaris* f. *croceus* Bég. & Vaccari in Schedae ad Fl. Lyb. Exs., 35. n° 99. 1913, *nomen nudum*. Contr. Fl. Lib.: 46. 1912; Sec. Contr. Fl. Lib. Roma: 26. 1913 (idem ma senza località); Modena 22; Terzo Contrib. Fl. Lib., Ann. Di Bot. 12: 105. 1913 (idem). (All sub *R. asiaticus* var. *vulgaris* DC.)

Original material: [Libya, Cyrenaica], Marmarica: Tobruk, in collibus aridis saxosis, solo calcareo, 01/03/1913. Leg. A. Vaccari (FI).

Accepted name: *Ranunculus asiaticus* L. see Dobignard & Chatelain 5: 190. 2013.

Note: only one specimen corresponds to this name in FI (published as Sched. n°99 in FI. Lib. Exs) and is sub *R. asiaticus* var. *grandiflorus*. The publication does not give any explicit description of the morphological characteristics.

The bibliographical citations mentioned on the sched. n° 99 of FI. Lib. Exs. all refer to *R. asiaticus* var. *vulgaris* DC. and relate to the following specimens respectively: Marmarica: Tobruk nei colli aridi i calcarei, 24/01, 20/02/1912. Leg. A. Vaccari.; *sine loco*; Marmarica: Tobruk nella costa sud del golfo, 12/01/1913. Leg. A. Vaccari.

New taxon: *Ranunculus bullatus* var. *cyrenaicus* Pamp. in Nuovo Gior. Bot. Ital. n.s. 26: 212 (1919).

Type: Lectotypus: [Libya], Cirenaica, Bengasi: Fra le Due Palme e la linea ferroviaria di Benina, in direzione del Giok Kebir (24), 05/01/1917. Leg. V. Zanon, (FI001168).

Marked as *Lectotypus* by R. M. Baldini, 11/04/2000, and later typified by R. Baldini & C. Jarvis, in *Bull. Nat. Hist. Mus. Lond. (Bot.)* 32(1): 11. 2002.

Other syntypi from the original collection: Cirenaica, Bengasi: Due Palme (24), 01/1915, (FI003679); C. Bengasi: Casa Auari (50 C), 12/1917, (FI003696). Leg. V. Zanon.

Accepted name: *Ranunculus cytheraeus* (Halácsy) Baldini, in Baldini & Jarvis, (2002).

New taxon: *Ranunculus cyclocarpus* Pamp. in *Arch. Bot.* XII(1): 25-26. (1936a); *Rend. Sem. Fac. Sc. Univ. Cagliari* VIII(3): 65. (1938).

Type: Libia, Cirenaica: Apollonia, l.d. Rgua (2750), 11/04/1933. Leg. R. Pampanini, (FI003469, *Lectotypus* designated here).

Other syntypi from the original collection: Libia, Cirenaica, Cirene: es Saf-Saf (2752), 18/04, (FI003471); C.: Lamuda macchia (2749), 09/04, (FI003467); C., Apollonia: l.d. Rgua (2750), 11/04, (FI003469); C., Uadi el Kuf: fra Gasr Beni Gdam e Sidi Abd el Uahed, (2751), 11/04, (FI003468); C., el Gubba: Siret-Bettamer (2748), 7/4/1933. Leg. R. Pampanini (FI003466).

Cirenaica, Cirene: es Saf-Saf (2753), 21/04, (FI003470); C., el Beda: Uadi El Kuf: l.d. Bu Breica (2756), 27/04, (FI003474); C., el Beda: Uadi Messaf-Saf, Ain Legmeila (2754), 22/04, (FI003472); C., el Beda: Uadi Beregt (2755), 24/04, (FI003473); C., el Beda: Uadi Uardama (2757), 02/05, (FI003475); C., Cirene: Uadi Hofra (2758), 05/05, (FI003476); C., Cirene: Uadi Bu Nabeh (2759), 15/5/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003477).

Accepted name: *Ranunculus cyclocarpus* Pamp. see Dobignard & Chatelain 5: 193. 2013 and also *Fl. Lib.* 108: 43. 1984.

Note: this is a Libyan endemic limited to Cyrenaica and in particular to the area of the Akhdar Jebel, the chain that stretches from Barce (to the west) almost as far as Derna (to the East). Specimen no. 2748 is accompanied by a piece of newspaper with the note, handwritten by Pampanini, “*Ranunculus* sp. nov.”

New taxon: *Ranunculus flabellatus* var. *amphicarpus* Pamp. in *Arch. Bot.* XII(1): 25. (1936a); *Rend. Sem. Fac. Sc. Univ. Cagliari* VIII(3): 65. (1938).

Original Collection: Libia, Cirenaica, Cirene: Saf-Saf 1933; C.: Slonta, steppa sassosa, (sub *R. flabellatus* f. *amphicarpa*) 17/04/1933. Leg. R. Pampanini (FI, only the 2nd specimen).

Accepted name: *Ranunculus paludosus* var. *amphicarpus* (Pamp.) Boulos comb. nov. (see Boulos 1979a).

Note: this specimen (Cirene: Saf-Saf 1933) is not present in FI, whilst there is another specimen: Cirenaica, Slonta, steppa sassosa (2744), 17/04/1933. Leg. R. Pampanini, corresponding to the apparently unpublished description in the protologue (Pampanini 1936a). We say “apparently” because of the uniqueness of the specimen Pampanini mentions (1938) and the fact that the specimen bears the usual piece of newspaper with the name of the new taxon (although under a different rank – f. *amphicarpica* Pamp.). Probably the name on the label is the first provisional hypothesis of the new taxon.

Thus it is probable that Pampanini wished to refer to this specimen and not the one published (may be with mistaken locality, but next to the one quoted on the label) in Pampanini (1938). Considering the margin of doubt that remains, we have not gone ahead with typification.

Rhamnaceae (M. Thiv)

New taxon: *Rhamnus alaternus* f. *intermedia* Pamp. in Arch. Bot. XII(1): 36. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 70. (1938).

Type: Libia, Cirenaica, Messa a ovest di Cirene: Uadi Tmista (4812), 29/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003747, Lectotypus designated here).

Accepted name: *Rhamnus alaternus* L.

Note: Pampanini (1936) did not indicate a type specimen in his description of the taxon. In accordance with ICN Art. 40.1 and 9.11 (McNeill & al. 2012) a lectotype is selected here. This specimen has a piece of newspaper with the name of the new taxon handwritten in blue pencil by Pampanini. It therefore very likely represents the material on which the description is based on.

New taxon: *Rhamnus alaternus* var. *microphylla* Pamp. in Arch. Bot. XII(1): 36. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 70. (1938).

Type: Libia, Cirenaica, Fra El Garib e Tolmeta: Uadi el Fahaga (4813), 14/04/1933. Leg. R. Pampanini, (FI003748, Lectotypus designated here).

Accepted name: *Rhamnus alaternus* L.

Note: the same points as shown for the nomenclatural treatment of *Rhamnus alaternus* f. *intermedia* also apply to *Rhamnus alaternus* var. *microphylla*.

New taxon: *Rhamnus pendula* Pamp. in Arch. Bot. XII(1): 36. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 70. (1938).

Type: Libia, Cirenaica, El Beda, U. Msuria (4859), 10/05/1934; leg. Pampanini & R.E.G. Pichi Sermolli, (FI003750, Lectotypus designated here).

Isolectotypus: ULT (*non vidi*).

Other original material: Cirenaica, Apollonia: U. Scechaba (4858), 01/05/1934, (FI003749); Cirene: U. BuNabeh (4860), 15/05/1934. leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003751).

Accepted name: *Rhamnus alaternus* L.

Note: in the original description no type material was indicated. In Jafri S.M.H., Fl. Lib. 30: 9. (1977c) specimen no. 4859 is selected as type, kept in two Herbaria (FI and ULT). In FI there is also the unpublished specimen but part of the original collection: Cirene: U. Belgadir (4857), 26/04/1934. Leg. R. Pampanini & R. E. G. Pichi Sermolli, unpublished. According to preliminary molecular analyses, *R. pendula* is distinct from other *R. alaternus* accessions. This taxon is, however, nested within the *R. alaternus* group. Therefore, until molecular studies are completed, *R. pendula* is here regarded as a synonym of *R. alaternus*.

New taxon: *Rhamnus tripolitana* Engler, in Pflanzenw. Afr. iii, II (Engl. & Drude, Veg. Der Erde, ix.) 311 (1921).

Type: [Libya], Tripolitaniën, [Tripoli]: Qasr Safran (928), 23/4/1881. Leg. G. A. A. Krause, (FI001177, Lectotypus designated here).

Accepted name: *Rhamnus tripolitana* Engler

Note: Engler (1921) states a close relationship between *R. tripolitana* and *R. alaternus* because of their racemose inflorescences. This shrub is moreover characterised by 1.5-

2 × 1-1.5 cm, elliptic leaves which are yellowish-tomentose on the lower surface. According to a letter from Diels to Pampanini, the specimen housed at FI is a fragment of the type of *R. tripolitana*. This specimen at FI seems to be the only original material of this taxon because the specimen at B is likely destroyed (R. Lücking in litteris 2016). The material at FI is, however, too sparse to infer the taxonomic status of *R. tripolitana*. Therefore, it is refrained from drawing conclusions.

Rosaceae (K. Pagitz)

New taxon: *Rubus cyrenaicae* Hruby in Arch. Bot. XII(1): 28-29. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Lectotypus: Libia, Cirenaica: U. Derna, 12/05/1934 (3413), R. Pampanini & R.E.G. Pichi Sermolli, sub. “*R. cyrenaicus*, Hruby 232”, (FI003453) by E. Monasterio-Huelin & H. E. Weber, in: Edinb. J. Bot. 53 (3): 316 (1996).

Syntypi: L.: Cirenaica, Cirene: Uadi Belgadir (3411), 26/04, (FI003454); C.: Uadi Hofra (3412), 05/05/1934. leg. R. Pampanini & R.E.G. Pichi Sermolli (FI003455).

Accepted Name: *Rubus ulmifolius* Schott var. *anoplothysus* Sudre

Note: *Rubus cyrenaicae* Hruby is part of *R. ulmifolius* Schott, and a synonym of *Rubus ulmifolius* var. *anoplothysus* Sudre [see E. Monasterio-Huelin & H. E. Weber in: Edinb. J. Bot. 53 (3): 311-322 (1996)]. The designated lectotype includes two inflorescences, both syntypi display only vegetative parts. All the specimens show autographic slips by Hruby, one of the syntypi also a second by Pampanini. The specimens originate from all three sites listed in Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

New Taxon: *Rubus mussolinii* Hruby (= *R. cyrenaicae* × *ulmifolius*) in Arch. Bot. XII(1): 29. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Original material: Libia, Cirenaica, el Beda: Uadi Messaf-saf 1933-34. Leg. Pampanini & R.E.G. Pichi Semolli.

Note: the original material of this taxon is probably lost. Description and the mentioned hybrid-status (*R. ulmifolius* × *R. cyrenaicae*, the latter is also *R. ulmifolius*) indicate that this taxon belongs also to *Rubus ulmifolius* Schott.

New Taxon: *Rubus mussolinii* (= *R. cyrenaicae* × *ulmifolius*) f. *cuneatiformis* Hruby in Arch. Bot. XII(1): 29. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, el Beda: U. Messaf-saf Ain Legmeila, 22/04/1934 (3414), Pampanini & R.E.G. Pichi Sermolli, (FI003451, Lectotypus designated here).

Isolectotype: (FI003452).

Accepted name: *Rubus ulmifolius* Schott.

Note: *Rubus mussolinii* Hruby f. *cuneatiformis* Hruby is part of *Rubus ulmifolius* Schott; on the sheet of the Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (in blue pencil). On the Isolectotype an autograph is missing, but it is obviously part of the same collection. *Rubus mussolinii* f. *cuneatiformis* is documented from the *locus classicus* only.

New Taxon: *Rubus mussolinii* (= *R. cyrenaicae* × *ulmifolius*) f. *pseudanisodon* Hruby in Arch. Bot. XII(1): 29. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, el Beda – U. Msuria, 10/05/1934 (3415). Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003450, Lectotypus designated here).

Accepted name: *Rubus ulmifolius* Schott.

Note: *Rubus mussolinii* Hruby f. *pseudanisodon* Hruby is part of *Rubus ulmifolius* Schott; on the sheet of the Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (by blue pencil). The text by Hruby indicates *R. cyrenaicae* × *anisodon* f. *bastardianus* Sudre. *Rubus anisodon* is one of Sudre's valueless microspecies of *R. ulmifolius* (Sudre 1908-1913, Rubi Europae, p. 71 f.). *Rubus mussolinii* Hruby f. *pseudanisodon* Hruby is written in blue by Pampanini on a separate label. The *herbarium* specimen originated from the only site documented for this taxon.

New Taxon: *Rubus mussolinii* f. *repens* Hruby (= *R. supercyrenaicae* × *ulmifolius* var. *anisodon*) in Arch. Bot. XII(1): 29-30. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, el Beda: U. Urdama, 02/05/1934 (3416). Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003416, Lectotypus designated here).

Accepted name: *Rubus ulmifolius* Schott.

Note: *Rubus mussolinii* Hruby f. *repens* Hruby is part of *Rubus ulmifolius* Schott; on the sheet of the Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (in blue pencil). Initially Hruby wrote *Rubus mostarensis* Sudre (= *R. ulmifolius* × *sanctus*), then he replaced *sanctus* by *cyrenaicae* f. *repens* Hruby. *Rubus mussolinii* Hruby f. *repens* Hruby is written in blue by Pampanini on a separate label. The *herbarium* specimen originates from the only site documented for this taxon.

New Taxon: *Rubus mussolinii* f. *vulgatiformis* Hruby in Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, Cirene: U. Bu Nabeih, 15/05/1934 (3417). Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003448, Lectotypus designated here).

Accepted name: *Rubus ulmifolius* Schott

Note: *Rubus mussolinii* Hruby f. *vulgatiformis* Hruby is part of *Rubus ulmifolius* Schott; on the sheet of the Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (in blue pencil). Initially Hruby wrote *anisodon* × *sanctus*, then he replaced this by *R. mussolinii* Hr. (= *ulmifolius* × *cyrenaicae*) f. *vulgatiformis*, which is also written in blue by Pampanini on a separate label.

New Taxon: *Rubus pampaninii* Hruby (= *R. cyrenaicae* × *sanctus*) in Arch. Bot. XII(1): 30. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Original material: Libia, Cirenaica, Cirene: Uadi Belgadir 1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Note: the original material of this taxon is probably lost. The description is not detailed enough to allow a confident classification. The taxon is most likely part of *R. ulmifolius* or a segregate of it.

New Taxon: *Rubus pampaninii* (= *R. cyrenaicae* × *sanctus*) f. *fissidens* Hruby in Arch. Bot. XII(1): 30. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, Cirene: U. Begadir, 26/04/1934 (3418). Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003446, Lectotype designated here).

Accepted name: *Rubus ulmifolius* Schott

Note: on the sheet of Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (in blue pencil).

New Taxon: *Rubus pampaninii* (= *R. cyrenaicae* × *sanctus*) f. *subvestitus* Hruby in Arch. Bot. XII(1): 30. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 67. (1938).

Type: Libia, Cirenaica, Cirene: U. Bu Nabe, 15/05/1934 (3419). Leg. Pampanini & R.E.G. Pichi Sermolli, (FI003447, Lectotype designated here).

Accepted name: cfr. *Rubus ulmifolius* Schott

Note: the *herbarium* specimen is rather inadequate. The taxon is most likely part of *R. ulmifolius*. On the sheet of Lectotypus there are two autographic slips by Hruby (at the bottom, on the left), and by Pampanini (in blue pencil).

Rubiaceae (E. Vela)

New taxon: *Asperula cyrenaica* f. *hispidula* Pamp. in Arch. Bot. XII(1): 45. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Libia, Cirenaica: fra Gubba e l'Uadi el Atrun: l.d. Argub Gazal (7599), 14/05/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003732, Lectotypus designated here).

Syntypus from the original collection: Cirenaica: Apollonia: Uadi Scechaba (7598), 01/05, (FI003731).

Accepted name: *Asperula cyrenaica* (E.A. Durand & Barratte) Pamp. (by Dobignard A. & Chatelain C., In: Index Synon. Fl. Afr. N. 5: 254. 2013).

Note: forma *hispidula* is part of the variation of the species, but this variation does not overlap the variation of the “rather variable species” (Jafri S. M. H. In: Flora of Libya, 65: 30. 1979) *A. hirsuta* Desf. sensu stricto from Morocco, Algeria and Tunisia.

New taxon: *Asperula cyrenaica* f. *villosa* Pamp. in Arch. Bot. XII(1): 45. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Libia, Cirenaica, Uadi El Kuf: fra Gasr Beni Gdam e Sidi Abd el Uahed (7601), 11/04/1933. Leg. R. Pampanini, (FI003734, Lectotypus designated here).

Syntypus from the original collection: Libya, Cirenaica, Uadi el Kuf: fra Gasr Beni Gdam e Sidi Abd el Uahed (7600), 06/04/1933, (FI003733, Leg. R. Pampanini).

Accepted name: *Asperula cyrenaica* (E.A. Durand & Barratte) Pamp. (by Dobignard A. & Chatelain C. in: Index Synon. Fl. Afr. N. 5: 254. 2013).

Note: forma *villosa* is part of the variation of the species, but this variation does not overlap the variation of the “rather variable species” (Jafri S. M. H. in: Flora of Libya, 65: 30. 1979) *A. hirsuta* Desf. sensu stricto from Morocco, Algeria and Tunisia.

New taxon: *Putoria calabrica* f. *lactea* Pamp. in Arch. Bot. XII(1): 45. 1936; Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Libia, Cirenaica, Messa a ovest di Cirene: Uadi Tmista (7666), 29/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003685, Lectotypus designated here).

Accepted name: *Plocama calabrica* (L. f.) M. Backlund & Thulin (by Dobignard A. & Chatelain C. in: Index Synon. Fl. Afr. N. 5: 269. 2013.).

Note: although the white flowered form is only known from Cyrenaica, it can appear mixed with the typical pink flowered form in a same locality (cf. “c. 5 km from Susa, on way from Shahat”, S.I. Ali 770 (ULT), S. I. Ali 771 (ULT); in Jafri 1979, Flora of Libya 65: 4 and should be considered as an individual achromatic form.

Rutaceae (G. Domina)

New taxon: *Haplophyllum vermiculare* var. *cyrenaicum* Pamp. in Nuovo Giorn. Bot. Ital. 24: 147. (1917)

Type: Cirenaica: Raaba (78), 04/[19]15, Leg. V. Zanon (FI, Lectotypus designated here). Other syntypi from the original collection: C.: Sciallabi el Bebas (304), 24/02; C.: Giuliana, Forte (406), 04/06; C.: Raaba (641), 07/06; C.: Cimitero Nuovo (643), 07/06/1916, Leg. V. Zanon (all material in FI).

Accepted name: *Haplophyllum tuberculatum* (Forsk.) Juss.

Note: the printed *herbarium* labels bring the handwriting by Pampanini. The field labels bring the handwriting by Zanon. The *herbarium* specimens are slightly morphologically different; the specimen that better fits the original description is designated as Lectotypus.

New taxon: *Haplophyllum vermiculare* var. *cyrenaicum* f. *latifolium* Pamp. in Nuovo Giorn. Bot. Ital. 24: 148. (1917)

Type: Holotypus: [Libya], Cirenaica: Raaba (642), 7 giugno 1916. Leg. V. Zanon (FI001166).

Accepted name: *Haplophyllum tuberculatum* (Forsk.) Juss.

Note: the *herbarium* labels are handwritten by Pampanini.

Santalaceae (P. Cuccuini & C. Nepi)

New taxon: *Thesium erythronicum* Pamp. in Arch. Bot. XII(1): 22-23. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 64. (1938).

Type: Libia, Cirenaica: Uadi el Atrum (1824), 14/05/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003694, Lectotypus designated here).

Isolectotypus: K000431436.

Syntypus from the original material: Libia, Cirenaica, Beda: l.d. Sfeiat (1823), 04/05/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003695).

Accepted name: *Thesium erythronicum* Pamp. by Jafri S.M.H. In: Fl. Lib. 14: 2. 1977d; also in Dobignard & Chatelain 5: 283. 2013.

Note: only specimen 1824 is mentioned in Pampanini (1936a), but both are cited in Pampanini (1938).

Scrophulariaceae (M. Abuhadra & P. Cuccuini)

(The genera *Antirrhinum* and *Linaria* are placed in *Plantaginaceae* by Dobignard & Chatelain 2013).

New taxon: *Antirrhinum gebelicum* Brullo & Furnari in Webbia 34(1): 168. (1979).

Type: Isotypus: Cirenaica: Uadi el Cuf, 1/05/1974. Leg. S. Brullo & F. Furnari (FI). Holotypus (CAT).

Accepted name: *Antirrhinum gebelicum* Brullo & Furnari

Note: as *Antirrhinum tortuosum* Bosc. ex Vent. in Dobignard & Chatelain 5; 71. 2013.

New taxon: *Antirrhinum tenue* Viv. in Fl. Lib. specimen, 33, tab. XVI, fig. 5 and 6. 1824.

Type: “*In tumulis arenosis Magnae Syrteos*”, [leg. P. Della Cella, see note], in Viviani, Florae libycae specimen: tab. XVI, fig. 5, 6 (Lectotypus designated here), (Fig. 2).

Epitypus: Tunisia: in incultis Sfax, 02/06/1854, Kralik, Pl. Tunet. n° 118 (sub. *Linaria viscosa* Dum., FI-W).

Isoepitypi: K, P.

Accepted name: *Linaria tenuis* (Viv.) Spreng. see Viano (1978a), Sutton (1988), Dobignard & Chatelain 5: 95. 2013.

Note: P. Della Cella collected plants in Libya (from Tripoli to western border of Egypt) in 1817 and delivered the complete collection to Prof. D. Viviani from Genova to be studied. With regard to *Linaria tenuis* (Viv.) Spreng, Viano (1978) states that the typus for the taxon is held in FI, but there is no trace of it there. Viano adds that Murbeck, in 1898, had already proposed a Neotypus (Tunisia: in incultis Sfax, 02/06/1834, Kralik, Pl. Tunet. no: 118) conserved in LD *Herbarium*, but again where it is not to be found (P. Frödén, in litteris 2016). Sutton (1988) had already reported other possible isoneotypes at K as seen by Murbeck (where on the contrary there is only a note written by a technician in pencil who cites it under the work by Murbeck) and subsequently found also in FI, K and P, the latter two sub *Linaria viscosa* Dum. Murbeck settled for this choice since he had judged the material Viviani described to be an immature and dwarf specimen of what was subsequently confirmed in nature, and this was cause of later incorrect interpretations by other botanists of the time. Since he had never been to Genova, where the material of Viviani was held (but no longer present because it was destroyed during the 2nd World War), he had probably seen the drawing published in Viviani (1824) as well as read his work. It is not clear what material of Kralik Murbeck examined, since he neither declared it nor do any of the specimens carry any evidence of his revisions. However, in our opinion the choice Murbeck made is incorrect, as there still exists an element of the original collection. This is table XVI, fig. 5 and 6; x -calyx; y -corolla, (actually for fig. 6 Viviani, in his work (1824) on page 33, says: “*fig. 6 huius speciei varietas altera*” without specifying anything else) where it is published as an essential part of the protologue for *Antirrhinum tenue*. However, the illustration is “ambiguous” as it refers to a juvenile phase of the species Viviani identified and is insufficient for the purpose of precise application of the name. For this reason, it is legitimate to designate the cited image as Lectotypus, supported by an auxiliary specimen as epitype, specified in the above mentioned Kralik specimen no. 118 held in FI-W, in as much the most suitable among those identified.

New taxon: *Linaria fruticosa* f. *dentata* Pamp. in Bull. Soc. Bot. Ital. (1-3): 15. (1914a); Pl. Tripol.: 206. (1914c).

Type: [Libya], Tripolitania, Tarhuna: Uadi Sart (1768), 27/03/1913. Leg. R. Pampanini. (Lectotypus designated here, FI005921).

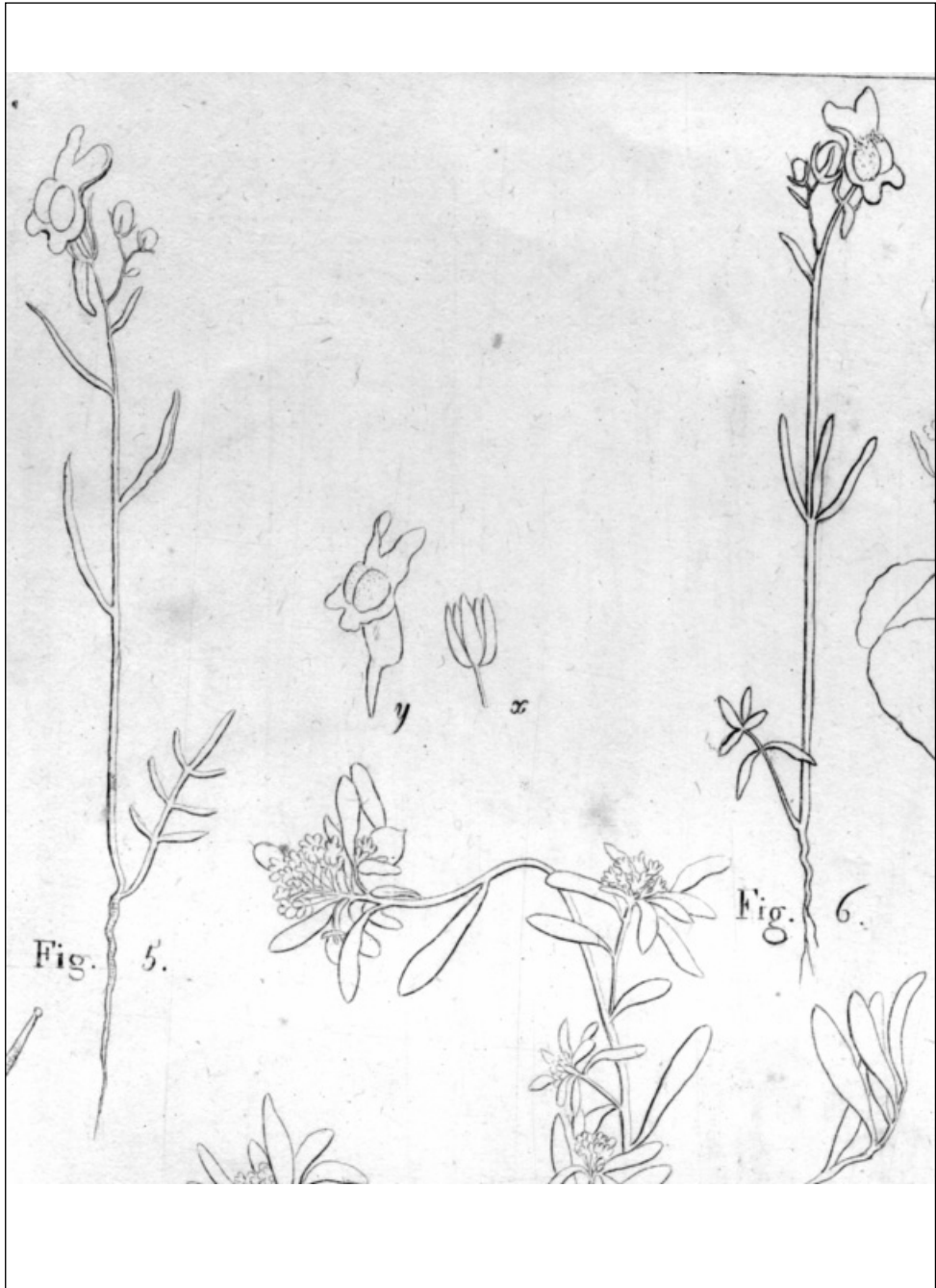


Fig. 2. *Antirrhinum tenue* Viviani, Figures 5 and 6, details x, y of table XVI, published in *Florae Libycae specimen*, 1824, Lectotypus, kept in Biblioteca di Scienze (Botanica), Università di Firenze.

Other syntypus from the original collection: Tripolitania, Ta.: Ain Scersciara (713), 14/03/1913. Leg. R. Pampanini, (FI005908).

Accepted name: *Kickxia aegyptiaca* subsp. *fruticosa* (Desf.) Qaiser (by M. Abuhadra, *in litteris* 2013), also in Fl. Lib. 88: 65. 1982.

Note: Sutton (1988) cites all infraspecific *L. fruticosa* taxa only under: Microfiches 2: 118, but it is Wickens: 15. (1975) who gives all the Syntypi (Tarhuna, Pampanini 921; Garian, Pampanini 3862 & 4138).

New taxon: *Linaria fruticosa* f. *integrifolia* Pamp. in Bull. Soc. Bot. Ital. (1-3): 16. (1914a); Pl. Tripol.: 206. (1914c).

Type: [Libya], Tripolitania, Tarhuna: Uadi Msaaba a Kasr Doga (921), 18/03/1913 . Leg. R. Pampanini, (FI005909, Lectotypus designated here).

Other syntypi from the original collection: Tripolitania, Garian: Uadi Garian (3862), 26/03, (FI005910); Ga.: Kasr Garian, nei campi incolti (4138), 30/04/1913. Leg. R. Pampanini, (FI005911).

Accepted name: *Kickxia aegyptiaca* subsp. *fruticosa* (Desf.) Qaiser (by M. Abuhadra, *in litteris* 2013), also in Fl. Lib. 88: 65. 1982.

Note: Sutton (1988) cites all infraspecific *L. fruticosa* taxa only under: Microfiches 2: 118, but it is Wickens: 15. (1975) who gives all the Syntypi (Tarhuna, Pampanini 921; Garian, Pampanini 3862 & 4138).

New taxon: *Linaria fruticosa* var. *litoralis* Pamp. in Bull. Soc. Bot. Ital. (1-3): 16. (1914a); Pl. Tripol. : 206. (1914c).

Type: [Libya], Tripolitania, Tripoli: Gargadesc (25), 16/02/1913. Leg. R. Pampanini, (FI005912, Lectotypus designated here).

Other syntypus from the original collection: T., Tripoli.: Oasi di Zanzur (179), 23/02/1913. Leg. R. Pampanini.

Accepted name: *Kickxia aegyptiaca* (L.) Nabelek subsp. *fruticosa* (Desf.) Qaiser (by M. Abuhadra, *in litteris* 2013), also in Fl. Lib. 88:65. 1982 and in Dobignard & Chatelain 5: 87. 2013.

Note: Sutton (1988) cites all infraspecific *L. fruticosa* taxa only under: Microfiches 2: 118, but it is Wickens: 15. (1975) who gives all the Syntypi (Tarhuna, Pampanini 921; Garian, Pampanini 3862 & 4138).

New taxon: *Linaria fruticosa* f. *villosa* Pamp. in Pl. Tripol.: 206. (1914c).

Type: [Libya], Tripolitania, Tarhuna: Uadi Tenziua sul Ras Maader (2053), 01/04/1913. Leg. R. Pampanini, (FI005914, Lectotypus designated here).

Other syntypus from the original collection: T.-Tripoli: Aziza al Fonduc Scebani (4368), 09/05/1913. Leg. R. Pampanini (FI005915).

Accepted name: *Kickxia aegyptiaca* (L.) Nabelek subsp. *fruticosa* (Desf.) Qaiser (by M. Abuhadra, *in litteris* 2013), also in Fl. Lib. 88: 65. 1982 and in Dobignard & Chatelain 5: 87. 2013.

Note: Sutton (1988) does not consider this infraspecific taxon of *L. fruticosa*.

New taxon: *Linaria haelava* var. *cyrenaica* Pamp. & Zanon in Nuovo Giorn. Bot. Ital. n.s. 26 (3): 216. 1919. (Ruhmer no. 256, 1883).

Type: [Libia], Cyrenaica: Bengazi (256), 07/01/1883. Leg. G. Ruhmer (sub. *Linaria haelava* Del.), (FI003729, Lectotypus designated here).

Other syntypus from the original collection: [Libya], Cirenaica, Bengasi: Sciallabi el Bebas, marzo 1918. Leg. V. Zanon (FI ?).

Accepted name: *Linaria haelava* var. *cyrenaica* Pamp. & Zanon

Note: as *Linaria laxiflora* Desf. subsp. *calcarlongum* Qaiser in Fl. Lib. 88: 56. 1982, as *Linaria haelava* (Forssk.) Delile in Dobignard & Chatelain. The specimen collected by Zanon is not kept in FI.

The taxon has moreover often been identified in the Cyrenaic area in all specialist works that look at this group of *Linaria*: in fact both S. Viano (1978b) and D. A. Sutton (1988) speak about it as a probable autonomous entity, already interpreted as a taxon described in the past as *Antirrhinum laxiflorum* var. *angustifolium* Viv. (Viviani, 1824), Fl. Lib.: 33. 1824, and *Linaria haelava* var. *cyrenaica* Pamp. & Zanon, (Pampanini & Zanon 1919), Nuovo Giorn. Bot. Ital. 26(3): 216. 1919. Only the rather brief description remains of the first, whilst the original material mentioned by the author still exists for the second. For that matter, in the Flora of Libya, Qaiser M. (1982) also considers *L. haelava* var. *cyrenaica* as a synonym of a new taxon: *L. laxiflora* var. *carcarlongum*. But the protologue mentions the difference from the autonymic variety, which both Pampanini and Sutton had previously noted, i.e. : «..plants with filiform leaves, glabrous inflorescences with up to 4 mm pedicels and a longer spur than *L. laxiflora* [as in *L. haelava*] ... and also slightly under 1 mm long tuberculated seeds [as in *L. haelava*], grey-blackish in colour – [this last character is difficult to evaluate because the material tends to lighten towards brown when dry]. Moreover, Viviani in his description clearly speaks about a hairy inflorescence (... , *calicibus hirsutis* !), consequently only the name Pampanini gave fully interprets the characters which Viano and Sutton described from the specimens. Thus we are faced with a new taxonomic entity, that has apparently reached a certain stability, of an original *L. haelava* with some characters of *L. laxiflora*.

Sutton in his treatment (Sutton 1988) added further material for comparison, for the most part cases which well show these diagnostic characters. It is true that more recently such situations in nature have been considered as falling under the variability of *L. haelava* (Dobignard & Chatelain 2013). On the contrary, we believe that the distribution shown by the material examined, and also confirmed indirectly by Qaiser, corroborates the validity of the varietal taxon Pampanini (1919) established as an endemic from North –West Cyrenaica.

New taxon: *Linaria tarhunensis* Pamp. in Bull. Soc. Bot. Ital. (1-3): 16. (1914a); Pl. Tripol.: 206 - 7. (1914c).

Type: Lectotypus: Tripolitania, Tarhuna: Uadi Tersiva, pianura a S. W. del Ras Maader (2079), 01/04/1913. Leg. R. Pampanini, FI005918 (by D. A. Sutton: 404. 1988).

Other Syntypi from the original collection: T, Tarhuna: Uadi Tenzia (Tersiva), nelle messi (1961), 01/04, (FI005917); T. Ta.: Abiar Milgha a Migi (4554), 28/02/1913. Leg. R. Pampanini, (FI005919).

Accepted name: *Linaria tarhunensis* Pamp. (by D. A. Sutton: 404. 1988); also in: Fl. Lib. 88: 50, 52. 1982; and by M. Abuhadra, *in litteris* 2013.

Note: already in his publication regarding the new taxon, Pampanini fears some doubts about its rank and immediately after the binomial he points out in brackets: (*An potius: L. fallax* Coss. var. *tarhunensis* m ?).

New taxon: *Linaria tenuis* var. *laxiflora* Pamp. in Bull. Soc. Bot. Ital. (1-3): 16. (1914a); Pl. Tripol. : 208. (1914c).

Type: Holotypus: [Libya], Tripolitania: Tripoli, Oasi di Tripoli ad Henni (3553), 23/04/1913. Leg. R. Pampanini. (FI).

Accepted name: *Linaria tenuis* (Viv.) Spreng. (by M. Abuhadra, *in litteris* 2013).

Note: Sutton mentions this taxon for Libya (Sutton: 432.1988), placing it under *L. tenuis* *L.* specifying “..Plants... with lax inflorescence...”, but he says also that its status had not yet been confirmed. The poor state of the material in our Herbarium (FI), even though it is the depository for the original collection, prevents us from analysing the problem more thoroughly.

New taxon: *Scrophularia arguta* f. *albiflora* Pamp. in Bull. Soc. Bot. Ital. (1-3): 16. (1914a); Pl. Tripol.: 209. (1914c).

Type: Holotypus: [Libya], Tripolitania, Tarhuna: Abiar Milgha a Migi (533), 28/02/1913. Leg. R. Pampanini, (FI005920).

Accepted name: *Scrophularia arguta* Soland. see Qaiser M. in Fl. Lib. 88: 3. (1982), by M. Abuhadra, *in litteris* 2013.

Solanaceae (P. Cuccuini & C. Nepi)

New taxon: *Hyoscyamus muticus* subsp. *brevibracteatus* Corti in Nuovo Giorn. Bot. Ital. 45: 219. (1938).

Type: [Libya, Cyrenaica], Reg. di Auenát: letto del torrente che dalla cima di Auenát scende all’Uadi Abd el Málech, raro tra i 100e i 1400m., (1496) 19/4/1933. Leg. L. Di Caporiacco, (FI, Lectotypus designated here).

Other syntypus from the original collection: [Libya, Cyrenaica], Reg. di Auenát: Ultimo affluente di sinistra di Carcúr Brahim, salendo alla vetta principale, (1497), 02/ 1933. Leg. U. Monterin, (FI).

Accepted name: *Hyoscyamus muticus* L.

Note: Corti also alludes to another specimen collected by U. Monterin, which he believes can be attributed to this taxon. The doubt he expresses is due to the fact that the specimen is sterile: this is no. 1497 (the label inaccurately gives 1933, when it should be 1934, since Prof. Monterin guided a mission to the Libyan Sahara and Tibesti on behalf of the Italian Geographical Society in February-April, 1934).

New taxon: *Solanum nigrum* var. *alatum* f. *robustum* Pamp. in Arch. Bot. XII(1): 42. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 75. (1938).

Type: Holotypus: Libia, Cirenaica, Cirene: Uadi Belgadir (7194), 26/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli, (FI003730).

Accepted name: *Solanum villosum* Mill. subsp. *villosum* see Edmonds & Chweya (1997).

Note: as *Solanum nigrum* var. *villosum* L. in Fl. Lib. 62: 8-9. 1978; it should be noted that the hairs on the specimen do not have glands, see Edmonds & Chweya (1997).

Tamaricaceae (P. Cuccuini & C. Nepi)

New taxon: *Tamarix pauciovulata* var. *micrantha* Corti in Reale Soc. Geografica Italiana I: 191-192. (1942).

Type: [Libya], Fezzan occidentale, Reg. di Gat: Presso Féuet nella piana sabbiosa e sassosa fuori oasi (1533), 04/03/1934. Leg. R. Corti, (FI001178, Lectotypus designated here).

Isolectotypi: nos.1534-35. (FI).

Accepted name: *Tamarix macrocarpa* (Ehremb.) Bunge see Dobignard & Chatelain 5: 245. 2013.

Note: the Lectotypus and specimens n. 1534-35 all have drawings and handwritten notes by Corti. For this taxon, Corti (1942) also mentions specimen no. 1558, which, as it is sterile, is attributed to the species s.l. All three specimens from the original collection are considered on the same level, since Corti designated them with different, progressive numbers for reasons linked to the collection and management of the material, as can be seen from the final typewritten labels where the number was added in pen later; as *T. passerinoides* Delile var. *passerinoides* in Fl. Lib. 66: 21. (1979).

Valerianaceae (P. Cuccuini & C. Nepi)

New taxon: *Centranthus calcitrapae* f. *albiflorus* Pamp. in Bull. Soc. Bot. Ital. (1-3): 18. (1914a); Pl. Tripol.: 235. (1914c).

Type: [Libya], Tripolitania, Tarhuna: Abiar Milgha, sul Ras Ter (1068), 19/03/1913. Leg. R. Pampanini, (FI003736, Lectotypus designated here).

Other Syntypi from the original collection: Tripolitania, Mesellata.: Msid di Mesellata (2610), 9/04, (FI003739); T., Tarhuna.: Abiar Milgha, sul Ras Neb (1192), 19/03, (FI003737); Ta.: Abiar Milgha, a Migi (1029), 19/03, (FI003741); Ta.: Ras Ghenai (1540), 25/03, (FI003743); Ta.: Uadi Sart (1750), 27/03 (FI003738); Ta.: Uadi Sart (2132), 03/04, (FI003745); Ta.: Uadi Ksea sul Ras Argobinani (2451), 08/04, (FI003740); T., Garian: Ras Tecut (3706), 26/04, (FI003742); Ga.: Ras Bu Ganus (3943), 27/04, (FI003744); Ga.: Uadi Garian sul Ras Omcteba (4109), 29/04/1913. Leg. R. Pampanini, (FI003746).

Accepted name: *Centranthus calcitrapae* (L.) Duf., see Richardson in Bot. J. Linn. Soc. 71(3): 231. (1975).

Note: specimen no. 2132, in Pampanini (1914a) is erroneously given as no. 2133. Richardson (1975), does not consider the taxon.

New taxon: *Valerianella discoidea* var. *berenicea* Pamp. in Arch. Bot. XII(1): 45. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Type: Holotypus: Libia, Cirenaica: Giardina, tra Bengasi e Solluh (7791), 10/03/1933. Leg. R. Pampanini, (FI003735).

Accepted name: *Valerianella chlorodonta* Coss. & Durieu (by H.N. Le Houerou, 16/07/1960), also Alavi S. A. in Fl. Lib. 46: 6-7. (1977).

Violaceae (P. Cuccuini & C. Nepi)

New taxon: *Viola scorpiuroides* var. *inflata* Pamp. in Bull. Soc. Bot. Ital.: 117. (1912).

Type: [Libya], Cirenaica: Derna, Ridotta “Piemonte”, piani cespugliosi ed erbosi verso l’Halg Bu-Rues, 02/1912. Leg. M. Longa, (FI003808, Lectotypus designated here).

Isolotypus: FI003807.

Accepted name: *Viola scorpiuroides* Coss., in Fl. Lib.13: 1. (1977e), also in Dobignard & Chatelain 5: 352. (2013).

Note: the lectotypus has the original label handwritten by M. Longa, while the identification is signed by R. Pampanini. The label of the isolotypus is handwritten by R. Pampanini.

Zygophyllaceae (P. Cuccuini & C. Nepi)

New taxon: *Fagonia kahirina* var. *pseudocretica* Pamp. in Arch. Bot. XII(1): 33-34. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 69. (1938).

Type: Lectotypus: Libia, Cirenaica: El Gtafia a sud di Agedabia, [13/03/]1933, Pampanini no. 4565 (FI) [FI003902] (by El Hadidi, in Mitt. Bot. München 11: 393, fig 7, E. 1974.).

Accepted name: *Fagonia scabra* Forssk., in B-A. Beier 3(3): 251. 2005 and in Dobignard & Chatelain 5: 358, 359. (2013).

Note: El Hadidi cites erroneously no. 4564 as the typus, whilst in actual fact it is no. 4565. The typus was identified by M. N. El Hadidi (10/06/1972) as *Fagonia sinaica* Boiss. var. *pseudocretica* (Pamp.) Hadidi comb. nov. (= *F. scabra* Forssk.), see Bot. Not. 125(4): 531. 1972, Mitt. Bot. München 11: 393, fig 7, E. 1974, and Fl. Lib. 38: 22. 1977. Dobignard & Chatelain 5: 358. 2013, erroneously cite *Fagonia pseudocretica* Pamp. given when Pampanini actually described *F. kahirina* var. *pseudocretica* Pamp., see Arch. Bot. XII(1): 33-34. (1936a).

List of non-validly published names, according to article 24.3 of ICN (McNeill & al. 2012), by R. Pampanini, material of which is held in FI.

Orobanchaceae

New taxon: *Cistanche lutea* f. *genuina* Pamp. in Arch. Bot. XII(1): 42. (1936a). Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 75. (1938).

Original Collection: Cirenaica Umm er Rzem; Bomba; C.: Bomba: El Gefar; fra Bir Acheim e Mechili; Mechili: Uadi Ramla 1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

New taxon: *Cistanche violacea* f. *genuina* Pamp. in Arch. Bot. XII(1): 43. (1936a). Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 75. (1938).

Original Collection: Cirenaica: Agheila; C.: Uadi Faregh: l.d. Maaten Giofer; C.: fra Agedabia e Saunnu (? Fruct); C.: Saunnu; C.: fra Soluch e Sceleidima 1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Rubiaceae

New taxon: *Asperula cyrenaica* f. *genuina* Pamp. in Arch. Bot XII(1): 45. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 76. (1938).

Original Collection: Cirenaica, Beda: Uadi Scisu; C.: Uadi derna 1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli.

Conclusions

The work is complete. This second part of the work “treats” 112 (113 if including the name of a new genus) new names considering all those validly published [therefore excluding any names falling under article 24.3 of the ICN (McNeill 2012)]. Of these, once excluding those already subjected to nomenclatural studies, 91 (+ 1 genus) have been typified; in two cases it was necessary to also provide two epitypes since the typi (images) were considered to be “ambiguous”. It should also be remembered that we could not always designate types for reasons linked to the problematic availability of materials from the various original collections or for insufficient material at hand. Therefore, the catalogue (1st and 2nd part) considers a total of 353 new names, whilst 286 typifications have been carried out. Our study has examined a total of approximately 23,000 specimens, selecting about 1,500 from the original collections.

Phyto-geographical Assessment

With so many abundant collections at hand, we also attempted to estimate their phyto-geographical value with respect to the areas Quézel considered in 1978. According to Quézel (1978) the Libyan territory covers from 8 to 13 of the phyto-geographical regions into which the French scholar divided North Africa. These are the A: North African Steppe, B: Cyrenian-Mediterranean, C: East African Steppe, D: North Saharan, E: North-East Saharan, and very marginally F: Central Saharan, G: High Mountain Saharan and H: South Saharan. As can be seen, Fig. (3) shows the presence of the investigated taxa, found in 6 out of the 8 mentioned regions. In particular, regions B and A are the most predominant, with C, E, D exhibiting important values in decreasing order, with sporadic occurrences in F. This distribution results not only from the geographical characteristics of the itineraries followed by the collectors of the specimens held in FI or studied there. It also stems from the floristic reality of Libya itself, thus confirming the representative value of the material taken as a whole (Cavara F. 1926; Corti R. 1942; Quézel 1978; Brullo & Guglielmo 2001).

Present taxonomical value

During the revision of the first part of this work, we were asked to evaluate on the present taxonomical validity of the taxa considered in the work. Now that our work is complete, we feel we can give an answer. We took the work by Maire & al. (1952-1987) as the starting point for our reply, since it homogeneously illustrates the area in which Libya lies. And as the reference for our final evaluation, we concentrated on the only Flora for that country, the “Flora of Libya” (*Auctores vari* 1977-1988), whilst for nomenclatural updating the work by Dobignard and Chatelain (2010-2013), as well, obviously, as individual updating or re-evaluation of individual taxon ensuing from these general works. For this investigation, see Tab. (1) in which data can be summed up as follows. Starting from the work by Maire, two thirds of the taxa are presented, in particular those of Pampanini, of which as many as 62 are recognised as good taxa (directly or under *comb. or stat. nov.*). The most recent treatments, the “Flora of Libya” and that by “Dobignard & Chatelain”, recognise 32 and 43 taxa respectively, again as such or under combinations or new status. To these a further 10 taxa may be added as a result of other recent investigations or revi-

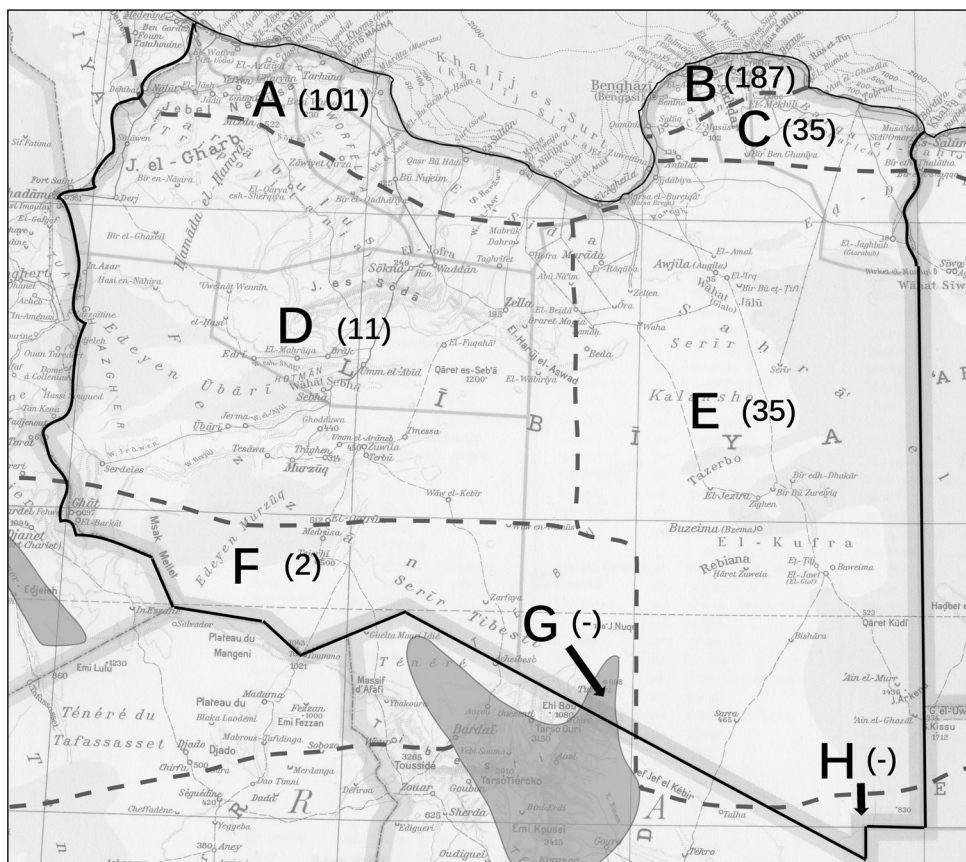


Fig. 3. Phytogeographical division of Libya in accordance with the domains set up by Quézel (1978) for Northern Africa. For each area, indicated by a letter, the number of detected types in this research (1st and 2nd part) is reported in round brackets. Rarely, when typification was not possible, the original materials are indicated. Legend: **A**: Steppic-Northern African Domain; **B**: Cyrenian-Mediterranean Domain ; **C**: Steppic-Eastern African Domain; **D**: Northern Saharan Domain; **E**: North-eastern Saharan Domain; **F**: Central Saharan Domain; **G**: Saharan-Hight Mountain Domain; **H**: Southern Saharan Domain.

sions. The latter are material which for the most part come from Cyrenaica (respectively 26, 37, 8) and secondly Tripolitania (5, 5, 2). Only one taxon is for Fezzan (1, 1, -). These data faithfully reflect the proportions found from the material examined in the phytogeographical context. Considering this as a whole, we can say that this is due to the fact that Cyrenaica has historically been far more investigated, and to its multiple and peculiar morpho-ecological aspects that exalt its floristic wealth.

Connections with the Collections

As regards the collections, as well as the obvious prevalence of the material Pampanini collected himself (together with Pichi Sermolli for the 1934 Cyrenaica col-

Tab. 1. Comparative table of taxa considered still valid taxonomically, housed at FI, in comparison with 'Flora of Libya', 'Index synonymique de la flore d'Afrique du nord' and other recent revisions.

<i>Actores vari: Flora of Libya, 1977-1988, & regions</i>	Collector/s	Dobignard & Chatelain, 2010-2013, & regions	Collector/s	Other references, & regions	Collector/s	Bibliography According to "Other references"
Alliaceae		Alliaceae <i>Allium greuteri</i> Brullo & Pavone, <u>CYR</u>	Brullo & Furnari			
<i>Allium longanum</i> Pamp., <u>CYR</u> .	Longa	=	=			
Apiaceae <i>Pachyctenium mirabile</i> Pamp. & Maire, <u>CYR</u> .	Pamp. & Pichi	Apiaceae =	=			
Asteraceae <i>Anthemis kruegeriana</i> Pamp., <u>CYR</u> .	Krueger	Asteraceae =	=			
<i>Atractylis phazaniae</i> Corti, FEZ.	Corti	=	=			
<i>Carthamus divaricatus</i> Beg. & Vaccari, <u>CYR</u>	Vaccari	=	=			
<i>Crepis taraxacifolia</i> var. <i>libyca</i> Pamp. ≡ <i>C. libyca</i> (Pamp.) Shabet., <u>CYR</u> .	Zanon	=	=			
<i>Pteris manginiana</i> Pamp., <u>CYR</u> .	Maugini	<i>Ifloga spicata</i> var. <i>labillardieri</i> Pamp. ≡ <i>labillardieri</i> (Pamp.) Zayed & Zareh, <u>CYR</u> .	Ruhmer			
		=	=			
		<i>Spitzelia saharae</i> var. <i>cyrenaica</i> Pamp. ≡ <i>Picris cyrenaica</i> (Pamp.) Lack, <u>CYR</u> .	Krueger			
		<i>Tolpis virgata</i> ssp. <i>apolloniae</i> Brullo & Furnari, <u>CYR</u> .	Brullo & Furnari			
Boraginaceae <i>Alkama tripolitana</i> Bornm. ≡ <i>Alkama tinctoria</i> ssp. <i>tripolitana</i> (Bornm.) Qaiser, <u>TRIP</u> .	Bornmueller	Boraginaceae =	=			

Tab. 1. continued.

			Echium italicum var. scaetiae Pamp.≡ <i>E. italicum</i> ssp. <i>scaetiae</i> (Pamp.) Greuter, <u>CYR</u> .	Maugini			
			Lithospermum hispidulum ssp. cyrenaicum Pamp.≡ <i>Lithodora</i> <i>hispidula</i> ssp. <i>cyrenaica</i> (Pamp.) Brullo & Furnari, <u>CYR</u> .	Pamp. & Pichi			
			Brassicaceae Diceratella sahariana Corti≡ <i>Morettia</i> <i>sahariana</i> (Corti) Jafri & Sabah, <u>CYR</u> , or: <i>Diceratella sahariana</i> Corti		Corti	Jafri & Sabah (1980)	
			<i>Mathiola incana</i> ssp. <i>cyrenaica</i> Brullo & Furnari [with dubij]*, <u>CYR</u> .	Brullo & Furnari	Brullo & Furnari	Brullo & Furnari (1979a)	
Capparaceae Capparis sicula var. <i>kruegeriana</i> Pamp.≡ <i>C. spinosa</i> ssp. <i>orientalis</i> var. <i>kruegeriana</i> (Pamp.) Jafri, <u>CYR</u>	Krueger						
			Caprifoliaceae <i>Lonicera persica</i> var. <i>occidentalis</i> Pamp.≡ <i>L. nummularifolia</i> var. <i>occidentalis</i> (Pamp.) Brullo & Furnari, <u>CYR</u> .	Cavara			
Caryophyllaceae <i>Silene marmarica</i> Bég. & Vaccari, <u>CYR</u> .	Vaccari			=			
			<i>Petrorhagia rupestris</i> Brullo & Furnari, <u>CYR</u> .	Brullo & Furnari			
Convolvulaceae <i>Convolvulus maireanus</i> Pamp., <u>CYR</u> .	Pamp. & Pichi <u>CYR</u> .			=		Convolvulaceae	

Tab. 1. continued.

Lamiaceae			Lamiaceae <i>Ballota andreuziana</i> Pamp., CYR.	Maugini	Lamiaceae		
<i>Origanum cyrenaticum</i> Bég. & Vacc. CYR.	Vaccari		=	=			
<i>Satureja forii</i> Pamp., CYR.	Maugini		=	=			
<i>Satureja timbra</i> f. <i>albiflora</i> Pamp. CYR (with doubt)	Pamp				<i>Satureja timbra</i> f. <i>albiflora</i> Pamp. CYR.	Pamp.	N. Feinbrun-Dothan (1978)
<i>Teucrium lini-vaccari</i> Pamp., TRIP.	Pamp.		=	=			
<i>Teucrium zanonii</i> Pamp., CYR.	Zanon		=	=			
Liliaceae <i>Gagea × pampanini</i> A. Terracc., TRIP.	Pamp.		Liliaceae <i>Gagea pampanini</i> A. Terracc. [pro hybr.], TRIP.	=			
			<i>Scilla autumnalis</i> var. <i>cyrenaica</i> Pamp. ≡ <i>Prospero cyrenaticum</i> (Pamp.) Step., CYR.	Zanon			
Papaveraceae <i>Hypecoum aequilobum</i> Viv. CYR.	Della Cella; Pamp. & Pichi (epitype)		Papaveraceae =	=			
Plumbaginaceae			Plumbaginaceae <i>Limonium teuchirae</i> Brullo, CYR. <i>Limonium vaccarii</i> Pignatti ex Brullo, CYR.	Brullo & Furnari Vaccari	Plumbaginaceae		
<i>Statice delicatula</i> var. <i>subrotundifolia</i> Bég. & Vaccari ≡ <i>Limonium</i> <i>subrotundifolium</i> (Bég. & Vaccari) Brullo, CYR.	Vaccari		=	=			
<i>Statice pruinosa</i> var. <i>hirtiflora</i> Cavara ≡ <i>Limonium pruinatum</i> var. <i>hirtiflorum</i> (Cavara) Tack., CYR.							
			<i>Statice tubiflora</i> var. <i>zanonii</i> Pamp. ≡ <i>Limonium zanonii</i> (Pamp.) Domina, CYR.	Zanon			

Tab. 1. continued.

Poaceae			Poaceae			Poaceae <i>Brachypodium distachyon</i> var. <i>hispidum</i> Pamp., TRIP.	Pamp.	Banfi, in the present study
<i>Bromus caryopogon</i> Viv., CYR.		=						
<i>Poa vaginata</i> Pamp., CYR.	Maugini	=						
Ranunculaceae			Ranunculaceae			Ranunculaceae		
<i>Ranunculus cyclocarpus</i> Pamp., CYR	Pamp.	=				<i>Ranunculus flabellatus</i> var. <i>amphicarpius</i> Pamp. ≡ <i>R. paludosus</i> var. <i>amphicarpius</i> (Pamp.) Boulos, CYR.	Pamp.	Boulos (1979a)
Santalaceae			Santalaceae			Santalaceae		
<i>Thesium erythronicum</i> Pamp., CYR.	Pamp.	=						
Scrophulariaceae			Scrophulariaceae			Scrophulariaceae		
<i>Antirrhinum tenue</i> Viv. ≡ <i>Linaria</i> <i>tenuis</i> (Viv.) Spreng., CYR.?	Della Cella; Kralik (epitype)	=						
<i>Linaria tarhunensis</i> Pamp., TRIP.						<i>Linaria haclava</i> var. <i>cyrenaica</i> Pamp., CYR.	Ruhmer	Cuccuini in Cuccuini & al. (2015)
Zygophyllaceae								
<i>Fagonia kahirna</i> var. <i>pseudocretica</i> Pamp. ≡ <i>F. sinaica</i> var. <i>pseudocretica</i> (Pamp.) Hadidi, CYR.	Pamp.	=						

lection), the Zanon, Maugini and particularly Krueger collections also appear in the material he studied. These were essential for some parts of Cyrenaica, and the care and attentiveness can be seen in the new taxa described and in the number of those remaining accepted. Regarding other botanists, the taxa described by Corti for the Fezzan and Béguinot (but collected by A. Vaccari) for all north Libya deserve special mention. Finally, we must remember the older material of Ruhmer, which played an important part in typifications as well as the true historical pearls among the taxa of Viviani, Durand & Barratte and Engler respectively, some of which still held accepted. Obviously, more recent collections are also important, such as those of Brullo and Furnari (in general, duplicates in FI), whose taxonomic validity was “helped” by their modernity, or those of Ricceri and Steinberg who assembled the last important Libyan collections held in FI. Thus we have an extremely varied panorama of collections which, taken as a whole, and starting from the original and precious “Erbario Libico” are a valuable research tool for the study of the Libyan Flora.

Presence of specimens of R. Pampanini and R.E.G. Pichi Sermolli’s collections in other Herbaria

This short chapter describes the existence of Libyan collections in other Italian or foreign Herbaria, the originals of which are held FI. Only the main collection of the old ‘Erbario Libico’, that is the Pampanini collections, are considered.

From the existing bibliography (printed and on line), and in particular the Index Herbariorum (Thiers, B. [continuously updated] ed. on line), and Index Herbariorum-Collectors (Vegter 1983), the records for Pampanini and Pichi Sermolli regarding Libya refer exclusively to FI, BR in Belgium and ULT in Libya. Furthermore, some herbaria web sites appear to refer to material from Cyrenaica (see Table 2). But the literature cited in the first part of this work (Cuccuini & al. 2015), including unedited additional catalogues and, in this second part, exchanges (see the exchange records and indices for 1958-1969), mention that several sets of duplicates were made of the Tripolitania (1913) as well as the Cyrenaica collections (1933, 1934). It seems that no duplicates of the Tripolitania collections exist in other herbaria although, while studying them, Pampanini frequently contacted P, B and W herbaria. On the contrary, as far as the Cyrenaica collections are concerned, it seems that, thanks to Pichi Sermolli, who was custodian of both collections (1933, 1934) for a long period after the death of Pampanini, as many as 26 variously sized series of duplicates were made, of which 16 were sent to the same number of herbaria, as specified in Tab. (2).

Tab. 2. The materials belonging to R. Pampanini e R. Pampanini & R.E.G. Pichi Sermolli (Cyrenaica 1934) sent to the other Herbaria and the presence in virtual herbaria of typus material s. l. are recorded.

Herbaria (Code)	Country	Specimens	Sending Date	Presence in virtual Herbaria, coll. 1933, 1934	Typus material s. lato
A	USA	46	03/01/1962		
BG	Norway	9	12/10/1961		
BM	England	113	12/09/1961		
BR	Belgium	156	13/09/1961	1933(1), 1934(1)	1
G	Switzerland	462	20/06/1953, 26/04/1960-28/04/1961	1933(6), 1934(6)	7
GE	Italy	61	02/01/1962		
HUJ	Israel	69	12/10/1961		
K	England	621	02/05/1960-28/04/1961	1933(5), 1934(10)	5
L	Nederland	165	12/09/1961	unavailable	
LISC	Portugal	17 (23)	01/1968		
MA	Spain	23	01/1968		
MO	USA	37	03/01/1961		
MPU*	France	2	Sent directly to Maire by Pampanini before 1938	1933 (2)	2
NY	USA	13	28/09/1961		
S**	Sweden	93	14/09/1961	1933(5), 1933(2)	
W	Austria	301	12/09/1961	1933(1), 1934 (4)	3
ULT ***	Libya	28	After 1968		

*not sent as exchange; ** in S also 1 specimen collected by Vaccari in 1912; *** sent to ULT directly to L. Boulos, moreover in ULT there are duplicates by Ricceri & Steinberg 02/1978 (Fezzan)

Alphabetical Index of the Taxa in this work

New taxa, *nomina nuda* and families in roman type, heterotypic synonyms and accepted names in italics, the latter indicated with an *. There may be more than one accepted name for each new taxon. Also the infraspecific ranks are in alphabetical order. Including also names in the *Addenda* and *Corrigenda*.

<i>Adonis dentata</i> Delile	99
<i>Adonis microcarpa</i> DC.*	99
<i>Adonis microcarpa</i> var. <i>intermedia</i> f. <i>lutea</i> Pamp.	99
<i>Aegilops bicornis</i> var. <i>anathera</i> Eig	88
Alliaceae	139, 140
<i>Allium aschersonianum</i> f. <i>laeve</i> Pamp.	140
<i>Allium greuteri</i> Brullo & Pavone	139
<i>Allium greuteri</i> Brullo & Pavone*	139
<i>Anagallis linifolia</i> f. <i>candida</i> Pamp.	98
<i>Anagallis linifolia</i> var. <i>litoralis</i> Pamp.	99
<i>Anisantha fasciculata</i> (C. Presl) Nevski*	92
<i>Anisantha rigida</i> (Roth) Hyl.*	92
<i>Antirrhinum gebelicum</i> Brullo & Furnari	107
<i>Antirrhinum gebelicum</i> Brullo & Furnari *	108
<i>Antirrhinum tenue</i> Viv.	108
<i>Antirrhinum tortuosum</i> Bosc. ex Vent.	108

Apiaceae.....	140
<i>Aristida foexiana</i> Maire & Wellier	89
<i>Aristida obtusa</i> f. <i>arenosa</i> Corti	89
<i>Aristida obtusa</i> var. <i>pubescens</i> Andreansky	89
<i>Asperula cyrenaica</i> (Durr. & Barr.) Pamp.*	106
<i>Asperula cyrenaica</i> f. <i>genuina</i> Pamp.	114
<i>Asperula cyrenaica</i> f. <i>hispidula</i> Pamp.	106
<i>Asperula cyrenaica</i> f. <i>villosa</i> Pamp.	106
Asteraceae	139
<i>Atractylis prolifera</i> var. <i>albiflora</i> Cavara (<i>nom. nud.</i>)	139
<i>Avena beguinotiana</i> Pamp.	89
<i>Avena ventricosa</i> Balansa ex Cosson*	89
<i>Brachypodium distachyon</i> (L.) P. Beauv.*	90, 91
<i>Brachypodium distachyon</i> var. <i>genuinum</i> f. <i>mite</i> Pamp.	89
<i>Brachypodium distachyon</i> var. <i>genuinum</i> f. <i>typicum</i> sf. <i>puberulum</i> Pamp.	90
<i>Brachypodium distachyon</i> var. <i>hispidum</i> Pamp.	90
<i>Brachypodium distachyon</i> var. <i>hispidum</i> f. <i>confusum</i> Pamp.	90
<i>Brachypodium distachyon</i> var. <i>hispidum</i> Pamp.*	90
<i>Brachypodium distachyon</i> var. <i>hispidum</i> f. <i>intermedium</i> Pamp.	90
<i>Brachypodium distachyon</i> var. <i>hispidum</i> f. <i>pseudosubtile</i> Pamp.	91
<i>Brachypodium distachyon</i> var. <i>velutinum</i> Pamp.	91
<i>Brachypodium distachyon</i> var. <i>velutinum</i> f. <i>gussonei</i> Pamp.	91
<i>Bromus alopecuroides</i> subsp. <i>biaristulatus</i> (Maire) Acedo & Llamas*	92
<i>Bromus chrysopogon</i> Viv.....	91
<i>Bromus chrysopogon</i> Viv.*	91
<i>Bromus fasciculatus</i> f. <i>parlatorei</i> Pamp.	92
<i>Bromus hordeaceus</i> subsp. <i>molliformis</i> (Billot) Maire & Weiller*	92
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Sometimes the same locality is written with a different spelling, e.g.: Gfonta or Sfonta, Maaten or Maten, Sceilabi or Sciallabi, U. Messaf-saf or Saf Saf, Kasr or Gasr. Both versions are given in the list; the taxa followed by ‘*’ (an asterisk), even if mentioned in their protologues or in publications connected with them, are not present at FI. This index also includes localities in the *Addenda* and *Corrigenda*.

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Abiar Milgha a Migi (*Centranthus calcitrapae* f. *albiflorus*, *Koeleria salzmannii* var. *longiflora*,
Linaria tarhunensis, *Ranunculus asiaticus* var. *bicolor*, *Scrophularia arguta* f. *albiflora*)

Abiar Milgha sul Ras Neb (*Centranthus calcitrapae* f. *albiflorus*)

Abiar Milgha sul Ras Ter (*Centranthus calcitrapae* f. *albiflorus*, *Koeleria salzmannii* var. *longiflora*,
Ranunculus asiaticus var. *bicolor*)

Acroma (Bir Acheim), l.d. Sedra (*Bromus fasciculatus* f. *parlatorei*)

Agedabia, l.d. Bag Lia (*Koeleria salzmannii* var. *cossoniana* f. *glabra**)

Agedabia see el Gtafia

Agedabia (steppa a sud di) (*Atractylis prolifera* var. *albiflora*)

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- Ain Scersciara (*Linaria fruticosa* f. *dentata*, *Ranunculus asiaticus* var. *bicolor*)
- Ain Zara (Tripoli) (*Koeleria pubescens* var. *tripolitana*, *Koeleria salzmannii* var. *pampanini*)
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 Garian (in cultis) (*Hypecoum pendulum* var. *zoddae*)
 Gariunes (*Hypecoum aequilobum* var. *platylobum*)
 Gasr Beni Gdam e Sidi Abd el Uahed (fra-Uadi el Kuf): (*Asperula cyrenaica* f. *villosa*, *Brachypodium distachyon* f. *confusum*, *Ranunculus cyclocarpus*)
 Gasr Zaarura see Messa
 Ghegab (*Dactylis glomerata* var. *spicata*, *Dactylis glomerata* var. *spicata* f. *intermedia*)
 Giardina (*Dactylis glomerata* var. *spicata*, *Valerianella discoidea* var. *berenicia*)
 Giok [Kebir] (*Statice tubiflora* var. *zanonii*)
 Giuliana (Forte di) (*Haplophyllum vermiculare* var. *cyrenaicum*)
 Giuliana (Punta) (*Hypecoum aequilobum* var. *platylobum*)
 Gtafia (*Fagonia kahirina* var. *pseudocretica*)
 Guarscià e Gariunes (fra): (*Dactylis glomerata* var. *spicata*)
 Gubba e l'Uadi el Atrum, (fra) l.d. Argub Gazal see Argub Gazal
 Gubba e l'Uadi Latrun (fra), l.d. Argub Dasc see Argub Dasc
 Halg Bu-Rues see Ridotta Piemonte (Derna)
 Hania e Messa (fra) see Mregheb
 Hauari (Regione di Bengasi) (*Hypecoum aequilobum* var. *platylobum*)

- Henni see Oasi di Tripoli
Heseiat see Agedabia e Antelat
Istmo di Suez (nel deserto dell'Egitto): (*Roemeria tenuifolia*)
Juliana (near Benghasi): (*Aegilops bicornis* var. *anathera*)
Kam el Gaar (pianura di) (*Koeleria salzmannii* var. *longiflora*)
Karmu (*Dactylis glomerata* var. *spicata*)
Kasr Daun (*Brachypodium distachyon* var. *velutinum*, *Ctenopsis pectinella* var. *pubescens*)
Kars Doga see Uadi Msaaba
Kasr Garian, nei campi incolti (*Anagallis linifolia* f. *candida*, *Linaria fruticosa* f. *integrifolia*)
Kasr Garian (margini dei campi) (*Vulpia danthonii* var. *tripolitana*)
Kasr Tarhuna (*Ranunculus asiaticus* var. *bicolor*)
Kasr Tarhuna (colline a est di) (*Bromus rubens* f. *intermedius*, *Ctenopsis pectinella* var. *pubescens*, *Koeleria salzmannii* var. *longiflora* subvar. *aurata*)
Kseibia (*Dactylis glomerata* var. *spicata*)
Kuebia (*Dactylis glomerata* var. *spicata*)
Labrach (el Abrach ?), Mghernes (*Bromus macrostachys* f. *pubescens*, *Dactylis glomerata* var. *spicata* f. *intermedia*)
Lamluda (*Bromus macrostachys* f. *pubescens**, *Ranunculus cyclocarpus*)
Lete (*Dactylis glomerata* var. *spicata*)
Ma(a)tan Borgù: (*Dactylis glomerata* var. *spicata* f. *intermedia*)
Maaten Giofer see Uadi Faregh
Magnae Syrteos (grande Sirte): (*Antirrhinum tenue* - drawing)
Maraua (*Dactylis glomerata* var. *spicata* f. *intermedia*)
Marsa Brega (*Koeleria Salzmanni* var. *cossoniana* f. *glabra**)
Marsa Brega see el Grein
Martuba, Uadi Bgar (*Brachypodium distachyon* var. *genuinum* f. *typicum* sf. *puberulum*, *Dactylis glomerata* var. *spicata*, *Dactylis glomerata* var. *spicata* f. *intermedia*)
Mechili: Uadi Ramla (*Cistanche lutea* f. *pallida*, *Plantago coronopus* var. *commutata* f. *pubescens*)
Melch en Nogra see Agedabia e el Agheila (fra)
Melchifaf (*Brachypodium distachyon* var. *velutinum* f. *gussonei*, *Ranunculus asiaticus* var. *intermedius*, *Ranunculus asiaticus* var. *kermesinus*)
Melch en Nogra see Agedabia e el Agheila (tra) l.d. Melch en Nogra
Merg (piana Ovest): (*Dactylis glomerata* var. *spicata* f. *intermedia*)
Merg see Sidi Gibrin
Messa, Uadi Tmista, l. d. Umm Rcham (*Dactylis glomerata* var. *spicata*, *Putoria calabrica* f. *lactea*)
Messa, Gasr Zaarura (*Dactylis glomerata* var. *spicata* f. *intermedia*)
Mghernes see Labrach
Migi see Abiar Milgha
Misrata e Ras Zug (Fra, nei campi arenosi e lungo la sebhka) (*Ranunculus asiaticus* var. *grandiflorus**)
Mregheb (*Phyllyrea latifolia* var. *magnifica*)
Msid di Mesellata (*Centranthus calcitrapae* f. *albiflorus*)
Msus (*Cistanche violacea* f. *bicolor*, *Plantago coronopus* var. *commutata* f. *pubescens*)
Nalut (dintorni di) (*Coris monspeliensis* var. *syrtica* f. *dentata**)
Naughia (*Dactylis glomerata* var. *spicata*)
Oasi di Giarabub (*Polypogon monspeliensis* f. *exilis*)
Oasi di Tripoli ad Henni (*Linaria tenuis* var. *laxiflora*)
Oasi di Zanzur (*Linaria fruticosa* var. *litoralis*)
Palmeto (Monastir) (*Hypecoum aequilobum* var. *platylobum*)
Porto Bardia (sui costoni aridi) (*Statice pruinosa* var. *hirtiflora*)

- Qasr Safran (*Rhamnus tripolitana*)
 Ra(h)aba (*Dactylis glomerata* var. *spicata*, *Dactylis glomerata* var. *spicata* f. *intermedia*, *Haplophyllum vermiculare* var. *cyrenaicum*, *Haplophyllum vermiculare* var. *cyrenaicum* f. *latifolium*)
 Ramle di Abukir (nel deserto di-Egitto): (*Roemeria tenuifolia*)
 Ras Argobinani see Uadi Ksea
 Ras Bu Ganus (*Centranthus calcitrapae* f. *albiflorus*, *Roemeria hybrida* f. *latiloba*)
 Ras Bu Tauil (*Adonis microcarpa* var. *intermedia* f. *lutea*, *Roemeria hybrida* f. *latiloba*)
 Ras Ghenai (*Adonis microcarpa* var. *intermedia* f. *lutea*, *Centranthus calcitrapae* f. *albiflorus*, *Koeleria salzmannii* var. *longiflora* subvar. *aurata*, *Roemeria hybrida* f. *latiloba*)
 Ras Omcteba see Uadi Garian
 Ras Tecut (*Brachypodium distachyon* var. *velutinum*, *Centranthus calcitrapae* f. *albiflorus*)
 Regima (*Dactylis glomerata* var. *spicata*)
 Rgua see Apollonia
 Ridotta Piemonte (verso l'Halg Bu-Rues) (*Viola scorpiuroides* var. *inflata*)
 Ridotta Tilgher (a 10 Km da Agedabia) (*Koeleria salzmannii* var. *cossoniana* f. *villosa*)
 Ridotta Zorda (Merg) (*Dactylis glomerata* var. *spicata* f. *intermedia*)
 Saf-Saf (es-Cirene) (*Ranunculus asiaticus* var. *intermedius*, *Ranunculus cyclocarpus*, *Ranunculus flabellatus* var. *amphicarpus* *)
 Saf –Saf, Uadi Bu Meddas (*Brachypodium distachyon* var. *genuinum* f. *typicum* sf. *puberulum*)
 Sahabi (Saniet el Hamar) (*Avena béguinotiana*)
 Sceleidima (esc-) (*Cistanche violacea* f. *bicolor*)
 Sciallabi (*Sceilabi*) el Bebas (*Haplophyllum vermiculare* var. *cyrenaicum*, *Linaria haelava* var. *cyrenaica**)
 Sedra see Acroma
 Sebchet el Cuz (*Limonium teuchirae*)
 Selmani e Suani Osman (fra) (*Dactylis glomerata* var. *spicata*, *Hypocoum aequilobum* var. *platylobum*)
 Sfax (TUNISIA); (*Antirrhinum tenue*)
 Sfeiat see Beda
 Sf(l)onta (also Ghfonta?) (Messa): (*Dactylis glomerata* var. *spicata*)
 Sidi Ahmed Che(i)la see Barce
 Sidi Ahmed el Magrun (fra Bengasi e Agedabia): (*Dactylis glomerata* var. *spicata*, *Dactylis glomerata* var. *spicata* f. *intermedia*, *Plantago coronopus* var. *commutata* f. *pubescens*)
 Sidi Bu Amud see Fra Tobruk e Bardia
 Sidi Frag e El Magrun (fra) (*Plantago coronopus* var. *commutata* f. *villosa*)
 Sidi Gibrin (Merg) (*Bromus chrysopogon*)
 Sidi Kalifa (*Dactylis glomerata* var. *spicata*)
 Sinai (nel deserto dell'Egitto): (*Roemeria tenuifolia*)
 Siret Bettamer (el Gubba) (*Ranunculus cyclocarpus*)
 Siret Medanaat, fra Derna e Mechili (*Dactylis glomerata* var. *spicata*)
 Slonta (*Brachypodium distachyon* var. *velutinum* f. *gussonei*, *Bromus macrostachys* f. *pubescens*, *Dactylis glomerata* var. *spicata* f. *intermedia*, *Ranunculus flabellatus* var. *amphicarpus*)
 Slonta (steppa a *Poterium*) (*Dactylis glomerata* var. *spicata* f. *intermedia*)
 Socna (el Jofra – oasi artificiale) (*Diplachne festuciformis*)
 Suani Bazar (*Dactylis glomerata* var. *spicata*)
 Suani Beni Adem (nella steppa) (*Lagurus ovatus* f. *oblongus**)
 Tobruk (*Dactylis glomerata* var. *spicata*, *Limonium vaccarii*)
 Tobruk (in collibus aridis) (*Ranunculus asiaticus* var. *vulgaris* f. *croceus*) Nomen nudum
 Tobruk e Bardia (fra): l.d. Sidi Bu Amud (*Bromus fasciculatus* f. *parlatorei*)
 Tocra e Tolmeta (fra) (*Dactylis glomerata* var. *spicata* f. *intermedia*)
 Tripoli e Gargaesc (fra) (*Anagallis linifolia* var. *litoralis*)

- Tunin, 2° deposito d'acqua (Reg. di Gat – Fezzan occidentale) (*Potamogeton crispus* f. *integrifolius*)
- Uadi Abd el Málech see Auenát
- Uadi Belgadir(or Bogadir, Beldgadir) (*Brachypodium distachyon* var. *velutinum* f. *gussonei*, *Rhamnus pendula*, *Rubus cyrenaicae*, *Rubus pampaninii** (= *R. cyrenaicae* x *sanctus*), *Rubus pampaninii* f. *fissidens*, *Solanum nigrum* var. *alatum* f. *robustum*)
- Uadi Beregd (Beda) (*Ranunculus cyclocarpus*)
- Uadi Bgar see Martuba
- Uadi Buten (Cirene) (*Brachypodium distachyon* var. *genuinum* f. *typicum* sf. *puberulum*)
- Uadi Beregd see Beda
- See also Cirene Uadi Bu Meddas
- Uadi Bu Meddas see also Saf Saf (as)
- Uadi Bu Ms(c)eifa see Tolmeta
- Uadi Bu Nabeh (Cirene) (*Ranunculus cyclocarpus*, *Rhamnus pendula*, *Rubus mussolinii* f. *vulgatiformis*, *Rubus pampaninii* (= *R. cyrenaicae* x *sanctus*) f. *subvestitus*)
- Uadi Derna (*Dactylis glomerata* var. *spicata* f. *intermedia*, *Onopordum cyrenaicum*, *Rubus cyrenaicae*)
- Uadi el Atrum (*Thesium erythronicum*)
- Uadi el Fahaga see Garib e Tolmeta
- U(W)adi el K(C)uf (*Antirrhinum gebelicum*)
- Uadi El Kuf l.d. Bu Breica see Beda
- Uadi Faregh e Maatan Risam (fra l') (*Plantago albicans* var. *desertica*)
- Uadi Garian (*Brachypodium distachyon* var. *hispidum*, *Brachypodium distachyon* var. *hispidum* f. *intermedium*, *Brachypodium distachyon* var. *velutinum*, *Koeleria pubescens* var. *tripolitana*, *Linaria fruticosa* f. *integrifolia*)
- Uadi Garian sul Ras Omcteba (*Centranthus calcitrapae* f. *albiflorus*)
- Uadi Hofra (Cirene) (*Dactylis glomerata* var. *spicata* f. *intermedia*, *Ranunculus cyclocarpus*, *Rubus cyrenaicae*)
- Uadi Issa (tra Bir el Ghelania e Brach) (*Aristida obtusa* f. *arenosa*)
- Uadi Ksea (pianura dell') (*Plantago albicans* var. *lanata*)
- Uadi Ksea, sul Ras Argobinani (*Adonis microcarpa* var. *intermedia* f. *lutea*, *Brachypodium distachyon* var. *hispidum* f. *pseudosubtile*, *Brachypodium distachyon* var. *velutinum*, *Centranthus calcitrapae* f. *albiflorus*, *Koeleria salzmannii* var. *pampaninii**)
- Uadi Madfa see Beda
- Uadi Megenin presso Ain Zara (*Plantago albicans* var. *macropoda*)
- Uadi Messaf-saf (Beda) (*Rubus mussolinii**)
- Uadi Messaf-saf see also Ain Legmeila (Beda)
- Uadi Msaaba (*Koeleria salzmannii* var. *longiflora*)
- Uadi Msaaba, a Kars Doga (*Bromus hordaceus* var. *molliformis* f. *villosus*, *Linaria fruticosa* f. *integrifolia*, *Roemeria hybrida* f. *latiloba*, *Scleropoa philistea* f. *pauciflora*)
- Uadi Msuria (Beda) (*Dactylis glomerata* var. *spicata*, *Rhamnus pendula*, *Rubus mussolinii* f. *pseudanisodon*)
- Uadi Naga (Derna) (*Bromus macrostachys* f. *pubescens*, *Dactylis glomerata* var. *spicata* f. *intermedia*)
- Uadi Ramla (Mechili) (*Brachypodium distachyon* var. *genuinum* f. *typicum* sf. *puberulum*)
- Uadi Sahal, Fra Tobruk e Bardia (*Dactylis glomerata* var. *spicata*)
- Uadi Sart (*Brachypodium distachyon* var. *hispidum* f. *pseudosubtile*, *Centranthus calcitrapae* f. *albiflorus*- 2 specimens, *Linaria fruticosa* f. *dentata*, *Vulpia danthonii* var. *tripolitana*)
- Uadi Scechaba (*Asperula cyrenaica* f. *hispidula*, *Dactylis glomerata* var. *spicata*, *Rhamnus pendula*)
- Uadi Scisu (Beda) (*Brachypodium distachyon* var. *velutinum* f. *gussonei*, *Bromus macrostachys* f. *pubescens*, *Dactylis glomerata* var. *spicata*; *Dactylis glomerata* var. *spicata* f. *intermedia*)
- Uadi esc Suenia see Umm er Rzem

- Uadi Tenziua/Tersiva (nella steppa) (*Brachypodium distachyon* var. *genuinum* f. *mite*, *Ctenopsis pectinella* var. *pubescens*)
- Uadi Tenziua (nelle messi) (*Adonis microcarpa* var. *intermedia* f. *lutea*, *Linaria tarhunensis*)
- Uadi Tenziua, pianura a S. W. del Ras Maader (*Linaria tarhunensis*, *Papaver rhoeas* var. *trichocarpum*)
- Uadi Tenziua, sul Ras Maader (*Brachypodium distachyon* var. *hispidum* f. *intermedium*, *Linaria fruticosa* f. *villosa*)
- Uadi Tmista (Cirene) (*Dactylis glomerata* var. *spicata*, *Rhamnus alaternus* f. *intermedia*)
- Uadi Uardama (*Brachypodium distachyon* var. *velutinum* f. *gussonei*, *Dactylis glomerata* var. *spicata* f. *intermedia*, *Ranunculus cyclocarpus*, *Rubus mussolinii* f. *repens*)
- Uadi Umm el Anain (Regione di Merg) (*Clematis flammula* var. *sancti-marini* f. *angustissima*)
- U(W)adi Zigza (*Paronychia arabica* subsp. *tibestica* var. *fezzanica*)
- Umm er Rzem (Barce) (*Dactylis glomerata* var. *spicata*)
- Umm er Rzem, Uadi Suenia (*Dactylis glomerata* var. *spicata*, *Poa vaginata*, *Ranunculus asiaticus* var. *intermedius*)
- Wadi el Bab (*Allium greuteri*)
- Zuetina a nord est di Agedabia (*Cistanche violacea* f. *bicolor*, *Hypocoum aequilobum* var. *platylobum*, *Koeleria Salzmanni* var. *cossoniana* f. *glabra**)
- Zuetina see Ghemines

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Contribution of the Authors:

- P. Cuccuini & C. Nepi: Coordinators, Museology and the other taxa (*Papaveraceae*, *Plantaginaceae*, *Primulaceae*, *Ranunculaceae*, *Santalaceae*, *Scrophulariaceae* (Cuccuini with M. Abuhadra), *Solanaceae*, *Tamaricaceae*, *Valerianaceae*, *Violaceae*, *Zygophyllaceae*)
- Mohamed N. Abuhadra: *Orobanchaceae* (with G. Domina), *Scrophulariaceae* (with P. Cuccuini)
- E. Banfi: *Poaceae*
- G. Domina: *Oleaceae*, *Orobanchaceae* (with M. Abuhadra), *Plumbaginaceae*, *Rutaceae*
- E. Luccioli: graphic
- S. Miranda: *Najadaceae*, *Potamogetonaceae*
- K. Pagitz: *Rosaceae*
- M. Thiv: *Rhamnaceae*
- E. Vela: *Rubiaceae*

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Unpublished sources

Registro degli aumenti (1841-1938)

“ “ (1939-1977)

“ ” (1978- 2005)

“ ” (2005-....)

Indici scambi (nos 1-70)

Indici scambi (nos. 71-126)

Raccolte Cirenaiche dei Proff. R. Pampanini e R.E.G. Pichi Semolli (Serie duplicate (1933-1934)

Registro arrivi e spedizioni piante (1949-1970)

Addenda et Corrigenda

The data on the following list were either omitted (as they were unknown at the time), erroneously or only partially illustrated or mentioned in the 1st part of this work (Cuccuini & al. 2015).

Addenda

In “Phytogeographical placing of collection areas” pag. 23.

In figure 5, with regard to the area of Pampanini’s collections of 1933, the part between Bardiya and Scegga is missing. Moreover we added the collection locality of De Cillis near Barce, limited to material considered in Cuccuini & al. (2015).

Alliaceae

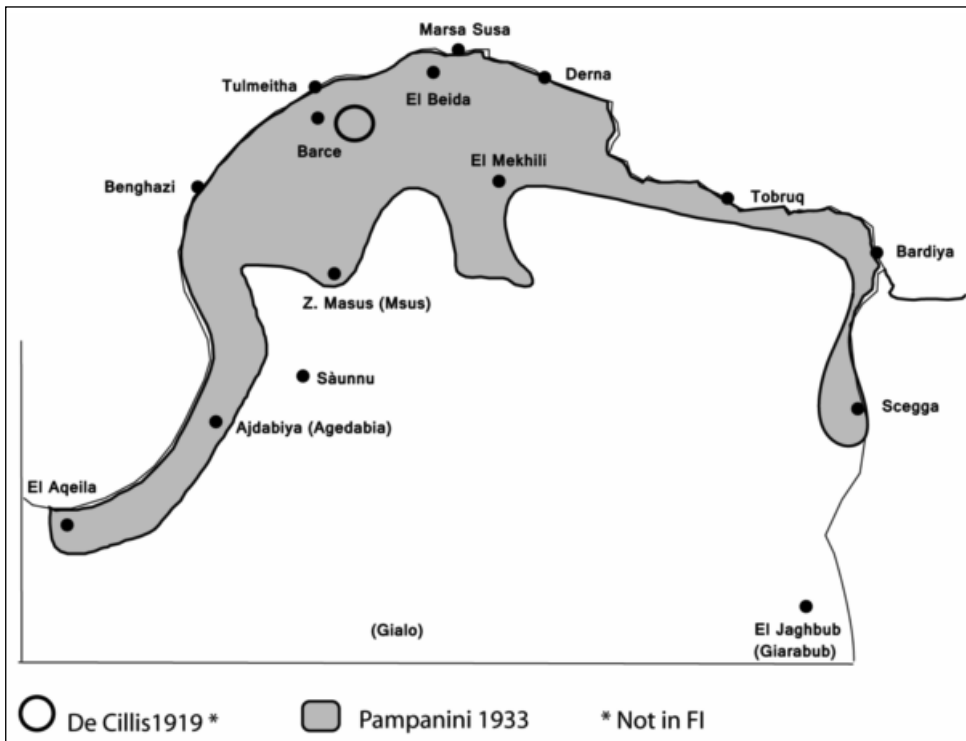
New taxon: *Allium greuteri* Brullo & Pavone in Willdenowia 13(1): 115. 1983.

Type: [Libya], Cirenaica: Wadi el Bab, 16/05/1981. Leg. Brullo S. & Furnari by Brullo & Pavone in Willdenowia 13(1): 115. 1983, Isotypus in (B, CAT, FI), Holotypus (CAT)

Accepted name: *Allium greuteri* Brullo & Pavone see Dobignard & Chatelain 1: 65. 2010.

Asteraceae

New taxon *Atractylis prolifera* Boiss. var. *albiflora* Cavara (sub *Atractylis prolifera*) in Bullettino dell’Orto Botanico R. Università di Napoli 9(1): 51 (1928); *nomen nudum*.



Corrige Fig. 1. Collections by De Cillis in 1919 and Pampanini’s in 1933.

Original material: [Libia], Cyrenaica: steppa a sud di Agedabia, 25/04/1925. Leg. F. Cavara (FI).

New taxon *Onopordum cyrenaicum* Maire & Weiller in Bull. Soc. Hist. Nat. Afr. Nord. 30 (4-5): 285. 1939.

Type: Lectotypus: Lybie, Cyrenaique: Uadi Derna (901), punti(e)s picneuses, 25/04/1938. Leg. R. Maire & M. Weiller. (FI) (Designated (as typus) by S. A. Alavi in Fl. Lib. 107: 246.1983).

Isolectotypus MPU

Accepted name: *Onopordum cyrenaicum* Maire & Weiller, see Dobignard & Chatelain 2: 330. 2011a; also in Fl. Lib. 107: 245-46. 1983.

Note: the specimen kept in FI is marked as Holotypus by P. Hein 2002; a 2nd syntypus is held in MPU. The transcripton of the labels of both specimens (MPU and FI) slightly differs from the texts published in Maire & Weiller (1939).

Illecebraceae

(In Dobignard & Chatelain (2011b) in *Caryophyllaceae*)

New taxon: *Paronychia arabica* subsp. *tibestica* var. *fezzanica* Chaudri [sub. *P. arabica* subsp. *desertorum* (Boiss.) Batt.] in Chaudri: A revision of Paronychiinae.- Meded. Bot. Mus. Utrecht **285**: 208. 1933. Utrecht.

Type: Holotypus: [Libya]: Fezzan sett., Wadi Zigza, ca 400 m. sul fondo pietroso sabbioso, (1196), 15/04/1933. Leg. R. Corti (FI). By Chaudri in: Chaudri 285: 209. 1968

Accepted name: *Paronychia arabica* subsp. *tibestica* var. *fezzanica* Chaudri, by Chaudri in Chaudri 285: 209. 1968

Note: as *P. arabica* subsp. *tibestica* Quézel in Dobignard & Chatelain 3: 223. 2011b.

In our opinion, the morphological differences observed by Chaudri (1968) and by us confirm his taxonomic decision in the subsp. *tibestica* Quézel group, regarding the autonomic var. and var. *fezzanica*. This is also considering the investigation the Pakistan scholar managed to perform on all the mountain material from Tibesti, among other things very far from Tibesti itself, including Chad. Therefore we recognise the validity of the proposition Chaudri put forward regarding var. *fezzanica*.

Corrigenda

—Pag. 32:

Alliaceae

In Cuccuini & al. 2015 Pampanini's specimen 1349 of *Allium aschersonianum* f. *laeve* Pamp. was erroneously indicated as Holotypus following B.E.E. de Wilde-Duyfjes (1976), nevertheless this author cited some other syntypi.

New taxon: *Allium aschersonianum* f. *laeve* Pamp. in Arch. Bot. (Forli) XII(1): 21. (1936a); Rend. Sem. Fac. Sc. Univ. Cagliari VIII(3): 63 (1938).

Type: Libia, Cirenaica, [Marmarica]: Tobruk (1349), 23/3/1933. Leg. R. Pampanini, (FI003619, Lectotypus designated here)

—Pag. 34

Apiaceae

In the 1st part of this work (Cuccuini & al. 2015), typification of *Pachytenium mirabile* Pampanini & Maire on page 34 is partially in error as only one plant of specimen n. 5637 (the one top right on the sheet) was designated as lectotypus for the reasons explained in the note. But after a more careful reading of Art. 8.2 of the ICN (McNeill & al. 2012) that defines the meaning of "specimen", i.e. intended "as gathering, or part of a gathering of a single species or infraspecific taxon made at one time.." we decided to choose the whole of specimen no. 5637 as Lectotypus for this name. Therefore the designation of the previous Lectotypus as well as identification of the Isolectotypus on the same sheet should be considered ineffective.

Type: Libya, Cyrenaica, El Beda: Uadi Beregd (5637), 27/04/1934. Leg. R. Pampanini & R.E.G. Pichi Sermolli. (FI). (Lectotypus designated here)

Consequently the legend for Fig. 9 on page 37 should read:

Specimen no. 5637, collected by R. Pampanini in Libya in 1933 and consisting of the plant *P. mirabile* Maire & Pamp. photographed in Arch. Bot. 12(2). 1936 (top right on sheet), is the Lectotypus of the taxon.

There are several misprints and illegible parts in Cuccuini & al. (2015) ; (not enclosed in taxonomic index).

—Pag. 22

In List of Collectors

corrigere

Longa A.: Cyr.

—Pag. 48

in *Cladanthus arabicus* var. *pygmaeus* Pamp.

corrigere

Type:22/04/1913

—Pag. 53

In *Launaea resedifolia* var. *pulchella* Pamp.

corrigere

Other material: [L., C.], Sirtica orientale: Maatan Risam: Gasr es Sahabi, 18/04/1928. Leg. G. Krueger, (FI003567). This specimen is not cited in the Protologue.

The “**Note**” paragraph is deleted.

—Pag. 64

In *Silene setacea* var. *glabrescens* Pamp.

corrigere

Type..... el Acheim-Acroma

—Pag. 85

In *Trigonella stellata* var. *micrantha* Pamp

corrigere

Syntypi.....4191(FI003427); 4187 [signed twice]

—Pag. 109

The *Lavatera* genus is at page: 109

corrigere

Lavatera brioniifolia Mill. *.....100, 101

Lavatera olbia subsp. *cyrenaica* Pamp.100

Lavatera olbia subsp. *cyrenaica* var. *vestita* Pamp.100

—Pag 131

In Reference

After ‘Rosuà 1986’ all publications attributed to him are actually P.A. Saccardo’s.

corrigere

Rosuà, J.- L. 1986: Contribucion al Estudio del Genero *Rosmarinus* L. en el Mediterraneo occidental. – Lagasalia **14(2)**: 179-187.

Saccardo, P. A. 1913a: Fungi tripolini a R. Pampanini anno 1913 lecti. – Bull. Soc. Bot. Ital. **1913**: 150-156.

— 1913b: Fungi Tripolitani. Notae mycologicae, ser XVIII(3). – Ann. Mycol., **12**.

— 1913c: Fungi Tripolitani. Notae mycologicae, ser XVII(7). – Ann. Mycol., **11**.



—Pag. 23

Caption of fig. 4, illegible

Corrige Fig. 2.



—Pag. 23

Caption of fig. 5, illegible

Corrige Fig. 3.

- 1917: Fungi. – Pp. 113-171 in: Pampanini, R., Piante di Bengasi e del suo territorio raccolte dal Rev. P. V. D. Vito Zanon della Missione dei P. P. Giuseppini al Fuehat. II. – Nuovo Giorn. Bot. Ital., n. s., **24**: 113-171.
- 1919: Fungi. – Pp. 218-219 in: Pampanini, R. & Zanon, V., Nuovi contributi alla conoscenza della flora della Cirenaica. – Nuovo Giorn. Bot. Ital., n. s., **26**: 205-220.

Convolvulaceae

In the first part of this work (Cuccuini & al. 2015), the material for the genus *Convolvulus*, so competently and scientifically considered by J.R.I. Wood, was published (along with some typifications). However, we were entirely unaware of the date of Wood's publication (see Wood & al. 2015), and did not see a copy of his article until after our own was published. Wood & al. (2015) pre-dates the first part of our work, and this has led to an unfortunate situation with overlaps in coverage, and changes in the bibliographical priority of some typifications.

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