

A check-list of the Libyan flora : 2. Salicaceae to Neuradaceae

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A check-list of the Libyan flora

2. Salicaceae to Neuradaceae

Loutfy Boulos

*This work is dedicated with
homage to the memory of
Vivi Täckholm (1898-1978)*

RÉSUMÉ

BOULOS, L. (1979). Catalogue de la flore libyenne. 2. Salicaceae à Neuradaceae. *Candollea* 34: 21-48. En anglais.

336 espèces — avec leurs synonymes — provenant de 33 familles, sont cataloguées avec les références complètes pour chaque épithète. Deux nouvelles variétés sont proposées: *Ranunculus paludosus* (Poir.) var. *amphicarpus* (Pamp.) Boulos et *Roemeria hybrida* (L.) DC. var. *tenuifolia* (Pamp.) Boulos. Des commentaires sur la distribution et la nomenclature de certaines espèces sont également fournis.

ABSTRACT

BOULOS, L. (1979). A check-list of the Libyan flora. 2. Salicaceae to Neuradaceae. *Candollea* 34: 21-48. In English, French abstract.

336 species belonging to 33 families are listed with full bibliographic references for all epithets. Synonyms are given. Two new combinations for two varieties are made: *Ranunculus paludosus* (Poir.) var. *amphicarpus* (Pamp.) Boulos, *Roemeria hybrida* (L.) DC. var. *tenuifolia* (Pamp.) Boulos. Notes on geographical distribution and nomenclatural comments are given for some species.

All available published works have been used to complete this list, as well as the unpublished records by the author, who worked at the University of Libya from September 1966 to July 1971. In the present list, families are arranged in the sequence followed by PAMPANINI (1931). All cultivated

species are excluded. Intraspecific epithets below the "varietas" rank are excluded. In addition, some subspecies and varieties are not listed. Geographical distribution records within Libya and any other distribution data are excluded, except in some particular cases or when a previously unpublished new record to the flora is involved. Further details were published in the first part of this check-list (BOULOS, 1977).

SALICACEAE

Salix subserrata Willd., Sp. Pl. 4: 671. 1806.

= *S. safsaf* Forskål ex Trautv., Mém. Acad. St.-Petersb. 3: 612, tab. 2. 1836; nom. illegit.

Salix alba L., Sp. Pl.: 1021. 1753.

Populus alba L., Sp. Pl.: 1034. 1753; var. **hickeliana** (Dode) Maire, in Jahandiez & Maire, Cat. Pl. Maroc: 161. 1932.

= *P. hickeliana* Dode, Extr. Monogr. Populus: 16. 1905.

According to MAIRE (1961: 41, 51, 56), the above two species of *Salix* grow in Derna and the *Populus* in Beda (Beida); it is doubtful however that they are spontaneous, and hence may not be considered indigenous to the Libyan flora.

FAGACEAE

Quercus ilex L., Sp. Pl.: 995. 1753.

Quercus coccifera L., Sp. Pl.: 995. 1753.

ULMACEAE

Ulmus campestris L., Sp. Pl.: 225. 1753.

Records of this species from Shahhat (Cyrene) and Wadi Bengadir in Cyrenaica (PAMPANINI, 1930: 170) may refer to cultivated trees. MAIRE (1961: 138) questioned its spontaneous status.

MORACEAE

Ficus carica L., Sp. Pl.: 1059. 1735.

MAIRE (1961: 185) considers this species as indigenous in North Africa; compressions of its leaves are known from the Quaternary. He adds that due to its cultivation everywhere, it is not possible anymore to distinguish

between the trees which are derived from primitive spontaneous types and cultivated ones.

Ficus salicifolius Vahl, Symb. Bot. 1: 82. 1790.

URTICACEAE

Urtica urens L., Sp. Pl.: 984. 1753.

Urtica pilulifera L., Sp. Pl.: 983. 1753.

Urtica membranacea Poiret ex Savigny in Lam., Encycl. 4: 638. 1798.

= *U. dubia* Forskål, Fl. Aegypt.-Arab.: cxxi. 1775; nom. illegit.

= *U. caudata* Vahl, Symb. Bot. 2: 96. 1791; non Burm. fil., Fl. Ind.: 198. 1768.

Parietaria judaica L., Fl. Palaest.: 32. 1756.

= *P. diffusa* Mertens & Koch, Röhlings Deutschl. Fl. (ed. 3) 1: 827. 1823.

Parietaria mauritanica Durieu in Duchartre, Rev. Bot. 2: 427. 1847.

Parietaria lusitanica L., Sp. Pl.: 1052. 1753.

Forssskalea tenacissima L., Opobalsam. Decl.: 18. 1764.

SANTALACEAE

Thesium humile Vahl, Symb. Bot. 3: 43. 1794.

ARISTOLOCHIACEAE

Aristolochia sp.

RAFFLESIIACEAE (CYTINACEAE)

Cytinus hypocistis (L.) L., Syst. Nat. (ed. 12) 2: 602. 1767.

= *Asarum hypocistis* L., Sp. Pl.: 442. 1753.

CYNOMORIACEAE (BALANOPHORACEAE, p.p.)

Cynomorium coccineum L., Sp. Pl.: 970. 1753.

POLYGONACEAE

Emex spinosa (L.) Campd., Monogr. Rumex: 58. 1819.

= *Rumex spinosus* L., Sp. Pl.: 337. 1753.

Rumex crispus L., Sp. Pl.: 335. 1753.

= *R. elongatus* Guss., Pl. Rar. Neap.: 150, tab. 28. 1826.

Rumex conglomeratus Murr., Prodr. Stirp. Gott.: 52. 1770.

= *R. acutus* Poiret, Voyage Barb. 2: 155. 1789.

Rumex pulcher L., Sp. Pl.: 336. 1753.

Rumex bucephalophorus L., Sp. Pl.: 336. 1753.

Rumex vesicarius L., Sp. Pl.: 336. 1753.

= *R. roseus* Desf., Fl. Atl. 1: 320. 1798; non L., Sp. Pl.: 337. 1753.

Rumex simpliciflorus Murb., Contr. Fl. Tun. 3: 11. 1899.

= *R. vesicarius* L.; subsp. *simpliciflorus* (Murb.) Maire in Jahandiez & Maire, Cat. Pl. Maroc: 176. 1932.

= *R. vesicarius* L.; var. *singuliflorus* Meissner in DC., Prodr. 14: 71. 1857.

Rumex tingitanus L., Syst. Nat. (ed. 10) 2: 991. 1759.

= *R. roseus* L., Sp. Pl.: 337, 1753; non Desf., Fl. Atl. 1: 320. 1798.

Rumex planivalvis (Murb.) Murb., Lunds Univ. Årsskr. N.F. Afd. 2, 2(14): 14, tab. 1, fig. 5-6. 1907.

= *R. vesicarius* L.; var. *planivalvis* Murb., Contr. Fl. Nord-Ouest Afr. 3: 11. 1899.

Calligonum comosum L'Hérit., Trans. Linn. Soc. London 1: 180. 1791.

Calligonum azel Maire, Bull. Hist. Nat. Afr. Nord 23: 211. 1932.

Polygonum aviculare L., Sp. Pl.: 362. 1753.

= *P. heterophyllum* Lindmann, Svensk Bot. Tidskr. 6: 690. 1912.

Polygonum patulum Bieb., Fl. Taur.-Cauc. 1: 304. 1808.

= *P. bellardii* auct., non All., Fl. Pedem. 2: 207, tab. 90, fig. 2. 1785.

Polygonum balansae Boiss. & Reuter in Boiss., Diagn. Pl. Or. Nov. (sér. 2) 4: 78. 1859.

= *P. induratum* Ascherson & Barbey in Durand & Barr., Fl. Lib. Prodr. 210, tab. 16. 1910.

Polygonum equisetiforme Sibth. & Sm., Fl. Graec. Prodr. 1: 269. 1809.

Polygonum maritimum L., Sp. Pl.: 361. 1753.

Polygonum salicifolium Brouss. ex Willd., Enum. Pl. Hort. Berol. 1: 428. 1809.

= *P. serrulatum* Lag., Gen. et Sp.: 181. 1816.

= *P. scabrum* Poiret in Lam., Encycl. 6: 148. 1804.

= *P. divariculatum* Poiret, Voyage Barb. 2: 160. 1789.

CHENOPODIACEAE

Beta vulgaris L., Sp. Pl.: 222. 1753; subsp. **maritima** (L.) Arcangeli, Comp. Fl. Ital.: 593. 1882.

= *Beta maritima* L., Sp. Pl. (ed. 2): 322. 1762.

Beta macrocarpa Guss., Fl. Sic. Prodr. 1: 302. 1827.

= *B. bourgaei* Cosson, Not. Crit.: 44. 1849.

Chenopodium vulvaria L., Sp. Pl.: 220. 1753.

Chenopodium murale L., Sp. Pl.: 219. 1753.

Chenopodium album L., Sp. Pl.: 219. 1753.

Chenopodium ambrosioides L., Sp. Pl.: 219. 1753.

Chenopodium foliosum Ascherson, Fl. Brandenb. 1: 572. 1864.

= *Morocarpus foliosus* Moench, Meth.: 342. 1794; nom. illegit.

= *Chenopodium virgatum* (L.) Ambrosi, Fl. Tyrol. Austr. 2: 179. 1857; non Thunb., Nov. Act. Soc. Sci. Ups. 7: 143. 1815.

= *Blitum virgatum* L., Sp. Pl.: 4. 1753.

DURAND & BARRATTE (1910: 202) report the occurrence of this species in Tripoli. PAMPANINI (1914: 68) cites the above locality, referring to DURAND & BARRATTE (l.c.). MAIRE (1962: 43) gives no mention of its occurrence in Libya, but reports on its distribution in high plateaus and mountains (up to about 3200 m) of Tunisia, Algeria and Morocco; he describes it as rare in the plains. BRENNAN (in TUTIN & al., 1964: 93) writes about our species "Scattered through much of Europe, but native only in the Alps and on mountains in the Iberian peninsula."

The occurrence of *Chenopodium foliosum* in Libya, therefore, remains doubtful, and probably the early records were based on misidentifications.

Atriplex rosea L., Sp. Pl. (ed. 2): 1493. 1763.

Atriplex halimus L., Sp. Pl.: 1052. 1753.

Atriplex coriacea Forskål, Fl. Aegypt.-Arab.: 175. 1775.

Atriplex portulacoides L., Sp. Pl.: 1053. 1753.

= *Obione portulacoides* (L.) Moq., Chenop. Enum.: 75. 1840.

= *Halimione portulacoides* (L.) Aellen, Verhandl. Naturf. Gesellsch. Basel 49: 126. 1938.

Atriplex dimorphostegia Kar. & Kir., Enum. Song. No. 714. 1842.

Atriplex mollis Desf., Fl. Atl. 2: 391. 1800.

Atriplex stylosa Viv., Pl. Aegypt.: 23. 1831.

= *A. palaestinum* Boiss., Diagn. Pl. Or. Nov. (sér. 1) 12: 96. 1853.

= *A. alexandrinum* Boiss., Fl. Or. 4: 914. 1879.

= *A. parvifolia* Lowe, Trans. Camb. Phil. Soc. 4: 16. 1831.

Halopeplis amplexicaulis (Vahl) Ung.-Sternb. ex Ces., Passer. & Gib., Comp. Fl. It.: 271. 1869.

= *Salicornia amplexicaulis* Vahl, Symb. Bot. 2: 1. 1791.

= *Halopeplis nodulosa* (Delile) Bunge, Linnaea 28: 573. 1856.

= *Salsola nodulosa* Delile, Fl. Egypte: 147. 1813.

Halocnemum strobilaceum (Pall.) Bieb., Fl. Taur.-Cauc. 3: 3. 1819.

= *Salicornia strobilacea* Pallas, Reise 1: 412. 1771.

= *S. cruciata* Forskål, Fl. Aegypt.-Arab.: 2. 1775.

Arthrocnemum macrostachyum (Moric.) Moris & Delponte, Ind. Sem. Hort. Taur.: 35, t. 2. 1854.

= *Salicornia macrostachya* Moric., Fl. Venet. 1: 2. 1820.

= *Arthrocnemum glaucum* (Delile) Ung.-Sternbv., Atti Congr. Bot. Firenze: 283. 1876.

= *Salicornia glauca* Delile, Fl. Aegypt. Ill.: 69. 1813; nom. illegit., non Stokes, Bot. Mat. Med. 1: 8. 1812.

= *S. mucronata* Lag., Mem. Pl. Barill.: 58. 1817.

Sarcocornia fruticosa (L.) A. J. Scott, Bot. J. Linn. Soc. 75: 367. 1977.

= *Salicornia europaea* L.; var. *fruticosa* L., Sp. Pl.: 3. 1753.

= *S. fruticosa* (L.) L., Sp. Pl. (ed. 2): 5. 1762.

= *Arthrocnemum fruticosum* (L.) Moq., Chenop. Monogr. Enum.: 111. 1840.

= *Salicornia peruviana* Kunth in Humb., Bonpl. & Kunth, Nov. Gen. et Sp. Pl. 2: 193. 1818 (after A. J. Scott, 1977: 367).

Scott (l.c.) writes: "Distribution: Europe, Asia, North and South America." ZOHARY (1966: 156) writes: Area: "Mediterranean; probably also in some other regions." PAMPANINI (1914: 70 and 1930: 180) reports its occurrence in Libya. It is proposed, therefore, to extend the geographical distribution of Scott (l.c.), to include North Africa.

Salicornia europaea L., Sp. Pl.: 3. 1753.

= *S. europaea* L.; var. *herbacea* L., Sp. Pl.: 3. 1753.

= *S. herbacea* (L.) L., Sp. Pl. (ed. 2): 5. 1762.

Suaeda vermiculata Forskål ex Gmelin, Syst. (ed. 13) 2: 503. 1791.

Suaeda pruinosa Lange, Vid. Meddel. Dansk Naturh. Foren. Kjøbenhavn 1861: 45. 1861.

Suaeda fruticosa Forskål ex Gmelin, Syst. (ed. 13) 2: 503. 1791.

= *S. fruticosa* (L.) Forskål, auct. mult., nec *Chenopodium fruticosum* L., Sp. Pl.: 221. 1753.

Traganum nudatum Delile, Fl. Aegypt. Ill.: 204, 60. 1813.

Salsola tetragona Delile, Fl. Egypte: 59. 1813; non Batt., in Batt. & Trabut, Fl. Alg.: 763. 1890.

= *S. pachoi* Volkens & Ascherson in Ascherson & Schweinf., Ill. Fl. Egypte: 130. 1887.

Salsola longifolia Forskål, Fl. Aegypt.-Arab.: 55. 1775.

= *S. oppositifolia* Desf., Fl. Atl. 1: 219. 1798.

= *S. sieberi* Presl, Bot. Bemerk.: 108. 1844.

Salsola vermiculata L., Sp. Pl.: 223. 1753; var. *vermiculata*

Salsola vermiculata L.; var. **villosa** (Delile ex Roemer & Schultes) Moq., Chenop. Monogr. Enum.: 141. 1840.

= *S. villosa* Delile ex Roemer & Schultes, Syst. Veg. (ed. 15) 6: 232. 1820; quoad descr. et nom. excl. specim. sieberianae.

= *S. delileana* Botsch., Novit. Syst. Pl. Vasc.: 371. 1964.

Salsola kali L., Sp. Pl.: 222. 1753.

Salsola baryosma (Roemer & Schultes) Dandy in Andrews, Fl. Pl. Angl.-Egypt. Sudan 1: 111. 1950.

= *Chenopodium baryosmum* Roemer & Schultes, Syst. Veg. (ed. 15) 6: 269. 1820.

= *Salsola foetida* Delile, Fl. Aegypt. Ill.: 310. 1813, nom. nud.

Salsola tetrandra Forskål, Fl. Aegypt.-Arab.: 58. 1775.

= *S. tetragona* Batt., in Batt. & Trabut, Fl. Alg.: 763. 1890; non Delile, l.c.

= *Muratina zolotarevskyana* Maire, Bull. Soc. Hist. Nat. Afr. Nord 29: 446. 1938.

Haloxylon scoparium Pomel, Nouv. Mat. Fl. Atl.: 335. 1875.

= *H. articulatum* (Cav.) Bunge, Mém. Sav. Etr. Pétersb. 7: 468. 1851; nom. illegit.

= *Arthrophyton scoparium* (Pomel) Iljin ex Jahandiez & Maire, Cat. Pl. Maroc: 974. 1941.

= *Hammada scoparia* (Pomel) Iljin, Bot. Žurn. 33: 583. 1948.

Haloxylon salicornicum (Moq.) Bunge ex Boiss., Fl. Or. 4: 949. 1879.

= *Caroxylon salicornicum* Moq. in DC., Prodr. 13(2): 174. 1849.

= *Hammada salicornica* (Moq.) Iljin, Bot. Žurn. 33: 583. 1948.

Noaea mucronata (Forskål) Ascherson & Schweinf., Ill. Fl. Egypte: 131. 1887.

= *Salsola mucronata* Forskål, Fl. Aegypt.-Arab.: 56. 1775.

= *Noaea spinosissima* Moq. in DC., Prodr. 13(2): 209. 1849.

Anabasis articulata (Forskål) Moq. in DC., Prodr. 13(2): 212. 1849; emend. Ascherson & Schweinf., Ill. Fl. Egypte: 128, 131. 1887.

= *Salsola articulata* Forskål, Fl. Aegypt.-Arab.: 55, t. 8a. 1775; non *S. articulata* Cav., Ic. 3: 43, t. 284. 1794.

Anabasis oropediorum Maire, Bull. Soc. Hist. Nat. Afr. Nord 29: 447. 1938.

= *A. articulata* (Forskål) Moq., l.c.; pro parte.

Cornulaca monacantha Delile, Fl. Egypte: 206 (éd. in folio), 234 (éd. in octavo), tab. 22. 1813.

Cornulaca aucheri Moq., Chenop. Enum.: 163. 1840.

MAIRE (1962: 127) gives no mention of this species from Libya. However, CORTI (1942: 83) enumerates it among other *Chenopodiaceae* species from Fezzan. SCHOLZ (1971: 344) confirms its occurrence in Libya from another locality in southern Cyrenaica.

Nucularia perrini Batt., Bull. Soc. Bot. France 50: 469. 1903.

Bassia muricata (L.) Ascherson in Schweinf., Beitr. Fl. Aethiop. 1: 187. 1867.

= *Salsola muricata* L., Mant.: 54. 1767.

= *Kochia muricata* (L.) Schrader, Neues J. Bot. Schrad. 3: III, IV, 86. 1809.

= *Echinopsilon muricatus* Moq., Ann. Soc. Nat. (sér. 2) 2: 127. 1834.

Bassia arabica (Boiss.) Maire & Weiller, Fl. Afr. Nord 8: 54. 1962.

= *Chenolea arabica* Boiss., Diagn. Pl. Or. Nov. (sér. 1) 12: 97. 1853.

AMARANTHACEAE

Amaranthus retroflexus L., Sp. Pl.: 991. 1753.

Amaranthus graecizans L., Sp. Pl.: 990. 1753.

= *A. angustifolius* Lam., Encycl. 1: 115. 1783.

= *A. sylvestris* Vill., Cat. Pl. Jard. Strasbourg: 111. 1807.

= *A. sylvestris* Desf., Tabl. Hort. Paris: 44. 1804; nom. nud.

= *A. blitum* auct. mult. non L., Sp. Pl.: 990. 1753; nom. confusum.

Amaranthus hybridus L., Sp. Pl.: 990. 1753.

= *A. paniculatus* L., Sp. Pl. (ed. 2): 1406. 1763.

Amaranthus viridis L., Sp. Pl. (ed. 2): 1405. 1763.

= *A. gracilis* Desf., Tabl. Hort. Paris: 43. 1804.

Aerva javanica (Burm. fil.) Juss. ex J. A. Schultes, Syst. Veg. (ed. 15) 5: 565. 1819.

= *Iresine javanica* Burm. fil., Fl. Ind.: 212. 1768.

= *Celosia lanata* L., Sp. Pl.: 205. 1753.

= *Aerva tomentosa* Forskål, Fl. Aegypt.-Arab.: cxxii, 170. 1775.

= *A. persica* (Burm. fil.) Merrill, Phil. J. Sci. 19: 348. 1921.

Synonyms after TOWNSEND (1974: 26).

NYCTAGINACEAE

Boerhavia diffusa L., Sp. Pl.: 3. 1753; var. **viscosa** (Choisy) Cuf., Bull. Jard. Bot. Etat 23: 78. 1953.

= *B. viscosa* Fresen., Mus. Seckenberg. 1: 75. 1834; non Lag. & Rodr., Anales Ci. Nat. 4: 256, n. 12. 1801.

= *B. repens* L., Sp. Pl.: 3. 1753; var. *viscosa* Choisy in DC., Prodr. 13, part II: 453. 1849.

Boerhavia diandra L., Sp. Pl.: 1194. 1753.

= *B. vulvarifolia* Poiret, Encycl. 5: 55. 1804.

= *B. repens* L., Sp. Pl.: 3. 1753; var. *glabra* Choisy in DC., Prodr. 13, part II: 453. 1849.

THELIGONACEAE

Theligonum cynocrambe L., Sp. Pl.: 993. 1753.

= *Cynocrambe prostrata* Gaertner, Fruct. 1: 362, t. 75. 1788.

AIZOACEAE

Aizoon hispanicum L., Sp. Pl.: 488. 1753.

Aizoon canariense L., Sp. Pl.: 488. 1753.

Limeum obovatum Vicary, J. Asiat. Soc. Bengal 16: 1163. 1847.

= *L. indicum* Stocks ex T. Anders., J. Linn. Soc. Bot. 5, Suppl. 1: 30. 1860.

Mesembryanthemum crystallinum L., Sp. Pl.: 480. 1753.

= *Cryophytum crystallinum* (L.) N. E. Br. in Phillips, Gen. S. Afr. Fl. Pl.: 245. 1926.

Mesembryanthemum nodiflorum L., Sp. Pl.: 480. 1753.

= *Cryophytum nodiflorum* (L.) L. Bolus, S. Afr. Gard. 17: 327. 1927.

= *Gasoul nodiflorum* (L.) Rothm., Notizbl. Bot. Gart. Berlin 15: 413. 1941.

Mesembryanthemum forsskalii Hochst. ex Boiss., Fl. Or. 2: 765. 1872.

= *M. forskahlei* Hochst.: Schimper, Pl. Arab. Petr. (ed. 2). 1843 [exs. No. 381 nom. manuscr. inval.].

= *M. geniculiflorum* Forskål, Fl. Aegypt.-Arab.: 98. 1775.

= *Opophytum forsskahlii* (Hochst. ex Boiss.) N. E. Br., Gard. Chron. (sér. 3) 84: 253. 1928.

PORTULACACEAE

Portulaca oleracea L., Sp. Pl.: 445. 1753.

PARONYCHIACEAE

Polycarpon tetraphyllum (L.) L., Syst. Nat. (ed. 10) 2: 881. 1759.

= *Mollugo tetraphylla* L., Sp. Pl.: 89. 1753.

Polycarpon alsinifolium (Biv.) DC., Prodr. 3: 376. 1828.

= *Polycarpon tetraphyllum* (L.) L., l.c.; var. *alsinifolium* (Miller) Arcang., Comp. Fl. It.: 112. 1882.

Polycarpaea repens (Forskål) Ascherson & Schweinf., Österr. Bot. Z. 39: 126. 1889.

= *Corrigiola repens* Forskål, Fl. Aegypt.-Arab.: 207. 1775.

= *Polycarpaea fragilis* Delile, Fl. Aegypt. Ill.: 241, t. 24, f. 1. 1813.

Gymnocarpus decander Forskål, Fl. Aegypt.-Arab.: 65. 1775.

Paronychia argentea Lam., Fl. Fr. 3: 230. 1778.

Paronychia arabica (L.) DC. in Poiret, Encycl. 5: 24. 1804.
= *Illecebrum arabicum* L., Mant.: 51. 1767.

Paronychia capitata (L.) Lam., Fl. Fr. 3: 229. 1778.
= *Illecebrum capitatum* L., Sp. Pl.: 207. 1753.

Paronychia chlorothyrsa Murb., Act. Univ. Lund. (Contr. Fl. Tunisie 1) 33: 48, tab. 2, fig. 13-14. 1897.

This species is treated as a subspecies of *P. capitata* (L.) Lam. by MAIRE (1963: 28).

According to CAUDHRI (1968), the above four species of *Paronychia* are known from Libya. For synonyms, infraspecific epithets, distribution, etc., refer to CHAUDHRI (l.c.).

Herniaria cyrenaica Hermann, Feddes Repert. 42: 221. 1937.

Herniaria cinerea DC. in Lam., Fl. Fr. Suppl.: 375. 1815.

Herniaria ericifolia C. C. Townsend, Kew Bull. 20: 427. 1966.

Herniaria fontanesii J. Gay in Duchartre, Rév. Bot. 2: 371. 1847.

Herniaria hemistemon J. Gay in Duchartre, Rév. Bot. 2: 371. 1847.

According to CHAUDHRI (1968), the above five species of *Herniaria* are known from Libya. For synonyms, infraspecific epithets, distribution, etc., refer to CHAUDHRI, l.c. DURAND & BARRATTE (1910: 43), PAMPANINI (1930: 190) and MAIRE (1963: 42) list *Herniaria glabra* among other species occurring in Libya. According to CHAUDHRI (l.c.), however, this species is not recorded from Libya, and probably the earlier records are based on misidentifications.

Telephium sphaerospermum Boiss., Diagn. Pl. Or. Nov. (sér. 1) 10: 12. 1849.
= *T. exiguum* Batt., Bull. Soc. Bot. France 54: 146. 1907.

Telephium barbeyanum Bornm., Mitteil. Thüring. Bot. Ver. 22: 41. 1907.

Sclerocephalus arabicus Boiss., Diagn. Pl. Or. Nov. (sér. 1) 3: 12. 1843.

Pteranthus dichotomus Forskål, Fl. Aegypt.-Arab.: lxii, 36. 1775.
= *P. echinatus* Desf., Fl. Atl. 1: 144. 1798.

Loeflingia hispanica L., Sp. Pl.: 35. 1753.

CARYOPHYLLACEAE

Stellaria media (L.) Vill., Hist. Plant. Dauph. 3: 615. 1789; subsp. **apetala** Čelak., Fl. v. Boehm.: 870. 1881.

For synonyms, see MEIKLE (1977: 260). Several infraspecific taxa are listed by MAIRE (1963).

Carastium glomeratum Thuill., Fl. Paris (ed. 2): 226. 1799.
= *C. viscosum* L., Sp. Pl.: 437. 1753; pro parte.

Cerastium semidecandrum L., Sp. Pl.: 438. 1753.

According to R. D. Meikle (private communication), the occurrence of this species in Libya is doubtful.

Cerastium pentandrum L., Sp. Pl.: 438. 1753.

Cerastium ligusticum Viv., Cat. Hort. Dinegro: 15. 1802.

= *C. campanulatum* Viv., Ann. Bot. 1: 171, tab. 1. 1804.

Cerastium siculum Guss., Fl. Sic. Prodr. Suppl.: 137. 1832.

= *C. pumilum* Curtis, Fl. Lond. 2(6): t. 30. 1794; subsp. *siculum* (Guss.) Maire, in Jahandiez & Maire, Cat. Pl. Maroc: 197. 1932.

Cerastium dichotomum L., Sp. Pl.: 438. 1753.

Sagina maritima G. Don, Herb. Brit., fasc. 7, No. 155. 1806.

Sagina apetala Ard., Animadv. Bot. Spec. Alt. 2: 22. 1764.

Dianthus serratifolius Sibth. & Sm., Fl. Graeca 5: 2, tab. 402. 1825.

Dianthus serrulatus Desf., Fl. Atl. 1: 346. 1798; var. **serrulatus**

Dianthus serrulatus Desf.; var. **cyrenaicus** Pamp., Arch. Bot. Forlì 12, N.S. 2: 27. 1936.

Minuartia geniculata (Poiret) Thell., Mém. Soc. Bot. Nat. Cherbourg 4, 38: 231. 1912.

= *Arenaria geniculata* Poiret, Voy. Barb. 2: 166. 1789.

= *A. procumbens* Vahl, Symb. Bot. 2: 50, t. 33. 1791.

= *Alsine procumbens* (Vahl) Fenzl, Geogr. Verbreit. Alsin.: 87. 1833.

Synonyms after MEIKLE (1977): 266.

Minuartia hybrida (Vill.) Schischkin, Komarov Fl. U.R.S.S. 6: 488. 1936.

= *Arenaria hybrida* Vill., Prosp. Plant. Dauph.: 48. 1779.

= *Minuartia tenuifolia* (L.) Hiern, J. Bot. 37: 321. 1899; non Nees ex Mart., Hort. Erlang.: 44. 1814.

= *Alsine tenuifolia* (L.) Crantz, Instit. 2: 407. 1766.

Arenaria leptoclados (Reichenb.) Guss., Fl. Sic. Syn. 2: 824. 1845.

= *A. serpyllifolia* L., Sp. Pl.: 423. 1753; var. *leptoclados* Reichenb., Ic. Fl. Germ. & Helv. 5: 32, t. 4941B. 1841.

Gypsophila pilosa Hudson, Phil. Trans. Roy. Soc. London 56: 252. 1767.

= *G. porrigens* (L.) Boiss., Fl. Or. 1: 557. 1867.

Spergula fallax (Lowe) Krause in Sturm, Deutschl. Fl. (ed. 2) 5: 19. 1901.

= *Spergularia fallax* Lowe in Hooker, Kew J. 8: 289. 1856.

= *Spergula flaccida* (Roxb.) Ascherson, Verh. Bot. Ver. Prov. Brandenb. 30: 311. 1889.

- = *Arenaria flaccida* Roxb., Hort. Bengal.: 34. 1814; non Clairv. 1811.
- = *Spergula pentandra* L., Sp. Pl.: 440. 1753; var. *intermedia* Boiss., Diagn. Pl. Or. Nov. (sér. 2) 1: 93. 1853.

Synonyms after ZOHARY (1966): 122.

- Spergularia diandra** (Guss.) Heldr. & Sart., Herb. Graec. Norm. No. 492. 1855.
- = *Arenaria diandra* Guss., Prodr. Fl. Sic. 1: 515. 1827.
- = *Spergula diandra* (Guss.) Murb., Contr. Pl. Tun. 1: 44. 1897.

- Spergularia bocconii** (Scheele) Ascherson & Graebner, Syn. Mitt.-Europ. Fl. 5(1): 849. 1919.
- = *Alsine bocconi* Scheele, Flora 26: 431. 1843.

- Spergularia marina** (L.) Griseb., Fl. Rum. & Bith. 1: 213. 1843.
- = *Arenaria rubra* L., Sp. Pl.: 423. 1753; var. *marina* L., Sp. Pl.: 432. 1753.
- = *Arenaria marina* (L.) All., Fl. Ped. 2: 114. 1785.
- = *Spergularia salina* J. & C. Presl, Fl. Čech.: 95. 1819.
- = *Spergularia media* (non (L.) Presl) Boiss., Fl. Or. 1: 733. 1867.
- = *S. diandra* (non (Guss.) Heldr. & Sart.) Sintensis, Österr. Bot. Z. 32: 364. 1882.

Synonyms after MEIKLE (1977): 276.

- Spergularia rubra** (L.) J. & C. Presl, Fl. Čech.: 94. 1819.
- = *Arenaria rubra* L., l.c., incl. var. *campestris* L., Sp. Pl.: 423. 1753.
- = *Spergularia campestris* (L.) Ascherson, Fl. Prov. Brandenb.: 94. 1864.

- Spergularia media** (L.) C. Presl, Fl. Sic.: 161. 1826.
- = *Arenaria media* L., Sp. Pl. (ed. 2): 606. 1762.
- = *S. marginata* (DC.) Kittel, Taschenb. Fl. Deutschl. (ed. 2): 1003. 1844.
- = *Arenaria marginata* DC., Ic. Gall. Rar.: t. 48. 1808.

MAIRE (1963) treats all the above *Spergularia* species as *Spergula* species.

- Silene vulgaris** (Moench) Garcke, Fl. Nord Mittel-Deutschl. (ed. 9): 64. 1869; s.l.
- = *Behen vulgaris* Moench, Meth.: 709. 1794.
- = *Silene cucubalus* Wibel, Prim. Fl. Werth.: 241. 1799.
- = *S. inflata* (Salisb.) Sm., Fl. Brit.: 467. 1800.
- = *S. venosa* (Gilib.) Ascherson, Fl. Brandenb. 2: 23. 1859.

Silene gallica L., Sp. Pl.: 417. 1753.

For infraspecific taxa see MAIRE (1963: 54-55).

- Silene articulata** Viv., Fl. Lib. Spec.: 23, tab. 12, fig. 1. 1824.
- = *S. gallica* L., l.c.; var. *articulata* (Viv.) Dur. & Barr., Fl. Lib. Prodr.: 35. 1910.

Silene cerastoides L., Sp. Pl.: 417. 1753.

Silene nocturna L., Sp. Pl.: 416. 1753.

Silene colorata Poiret, Voy. Barb. 2: 163. 1789.

Several infraspecific taxa are known from Libya (PAMPANINI, 1930 and MAIRE, 1963).

Silene cyrenaica Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30: 267. 1939.

Silene biappendiculata Ehrenb. ex Rohrbach, Bot. Z.: 82. 1867.

= *S. obtusifolia* Boiss., Fl. Or. 1: 593. 1867; non Willd., Enum. Plant. Berol.: 473. 1809.

Silene setacea Viv., Fl. Lib. Spec.: 23, tab. 12, fig. 2. 1824.

Infraspecific taxa are known from Libya (MAIRE, 1963).

Silene apetala Willd., Sp. Pl. 2(1): 703. 1799; var. **alexandrina** Ascherson in Ascherson & Schweinf., Illustr. Fl. Egypte: 46. 1889.

Silene apetala Willd.; var. **berenicea** Pamp., Nuovo Giorn. Bot. Ital. N.S. 24: 130. 1917.

Silene apetala Willd.; var. **vulgaris** Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30: 266. 1939.

Silene succulenta Forskål, Fl. Aegypt.-Arab.: lxvi, 89. 1775.

Silene sedoides Poiret, Voy. Barb. 2: 164. 1789.

Silene rubella L., Sp. Pl.: 419. 1753.

Silene longipetala Vent., Descr. Pl. Jard. Cels: t. 83. 1802.

Silene fruticosa L., Sp. Pl.: 417. 1753; subsp. **cyrenaica** Béguinot & Vaccari, Sp. Nuove Rare Fl. Lib.: 2. 1912.

Silene marmarica Béguinot & Vaccari, Ann. Bot. (Rome) 12: 100. 1913.

Silene muscipula L., Sp. Pl.: 420. 1753.

Silene villosa Forskål, Fl. Aegypt.-Arab.: 88 non 210. 1775.

Silene conoidea L., Sp. Pl.: 418. 1753.

Silene fuscata Link ex Brot., Fl. Lusit. 2: 187. 1804.

For synonyms see MAIRE (1963): 183.

Silene tridentata Desf., Fl. Atl. 1: 349. 1798.

Silene ligulata Viv., Fl. Lib. Spec.: 24, tab. 12, fig. 3. 1824.

Silene behen L., Sp. Pl.: 418. 1753.

= *S. cretica* Batt. & Trabut, Fl. Alg.: 137 & Append. 2: v. 1889.

Petrorhagia velutina (Guss.) Ball & Heywood, Bull. Brit. Mus. Bot. 3: 166, pl. 15c. 1964.

= *Dianthus velutinus* Guss., Index Sem. Hort. Bocc.: 2. 1825.

- = *Tunica velutina* (Guss.) Fischer & Meyer, Index Sem. Hort. Petrop. 6: 66. 1839.
- = *Gypsophila velutina* (Guss.) D. Dietr., Synops. Pl. 2: 1542. 1840.
- = *Kohlrauschia velutina* (Guss.) Reichenb., Ic. Fl. Germ. & Helv. 4: 43. 1844.
- = *Dianthus prolifer* L., Sp. Pl.: 410. 1753; subsp. *velutinus* (Guss.) Batt. in Batt. & Trabut, Fl. Alg.: 143. 1888.

Petrorhagia thessala (Boiss.) Ball & Heywood, Bull. Brit. Mus. Bot. 3: 156, fig. 17. 1964.

- = *Tunica thessala* Boiss., Diagn. Pl. Or. Nov. 2(8): 63. 1849.
- = *Gypsophila thessala* (Boiss.) Nyman, Syll. Fl. Eur.: 238. 1854.
- = *Tunica orphanidesiana* Clem., Mem. R. Accad. Sci. Torino (sér. 2) 16: 17. 1855.

Petrorhagia illyrica (Ard.) Ball & Heywood, Bull. Brit. Mus. Bot. 3: 133. 1964; subsp. **angustifolia** (Poiret) Ball & Heywood, Bull. Brit. Mus. Bot. 3: 136. 1964.

- = *Silene angustifolia* Poiret, Voy. Barb. 2: 164. 1789.
- = *Gypsophila compressa* Desf., Fl. Atlant. 1: 343. 1798.
- = *Tunica compressa* (Desf.) Fischer & Meyer, Index Sem. Hort. Bot. Petrop. 4: 50. 1837.
- = *Dianthella compressa* (Desf.) Pomel, Mat. Fl. Atlant.: 9. 1860.
- = *Tunica davaeana* Cosson, Bull. Soc. Bot. France 36: 103. 1889.
- = *T. angustifolia* (Poiret) Briq., Prodr. Fl. Corse 1: 544. 1910.
- = *T. scoparia* Pamp., Arch. Bot. Forlì 12: 25. 1936.
- = *T. illyrica* (Ard.) Ball & Heywood, l.c.; subsp. *angustifolia* (Poiret) Maire, Bull. Soc. Hist. Nat. Afr. Nord 30: 265. 1939.

Petrorhagia cyrenaica (Durand & Barr.) Ball & Heywood, Bull. Brit. Mus. Bot. 3: 158. 1964.

- = *Tunica thessala* Boiss., l.c.; var. *cyrenaica* Durand & Barr., Fl. Lib. Prodr.: 33. 1910.

Petrohagia rupestris Brullo & Furnari, loco incognito.

Synonyms of the above species of *Petrorhagia* are mainly after BALL & HEYWOOD, 1964.

Vaccaria pyramidata Medicus, Philos. Bot. 1: 95. 1789.

- = *Saponaria vaccaria* L., Sp. Pl.: 409. 1753.
- = *Vaccaria parviflora* Moench, Meth.: 63. 1794.

Agrostemma githago L., Sp. Pl.: 435. 1753.

- = *Githago segetum* Desf., Fl. Atl. 1: 363. 1798.

Robbairea deliliana Milne-Redhead, Kew Bull. 1948: 452. 1949.

- = *R. prostrata* (Forskål) Boiss., Fl. Or. 1: 735. 1867.

NYMPHAEACEAE

? *Nymphaea* sp.

CERATOPHYLLACEAE

Ceratophyllum demersum L., Sp. Pl.: 992. 1753.

RANUNCULACEAE

Nigella arvensis L., Sp. Pl.: 534. 1753; subsp. **arvensis**

For synonyms, see STRID (1970: 30).

Nigella tauberti Brand, Helios 8: 27, 192. 1895.

Delphinium halteratum Sibth. & Sm., Fl. Graec. Prodr. 1: 371. 1809.

= *D. longipes* Moris, Fl. Sard. 1: 59. 1837.

= *D. peregrinum* L., Sp. Pl.: 531. 1753; subsp. *halteratum* (Sibth. & Sm.) Batt., Fl. Alg.: 16. 1888.

Delphinium nanum DC., Reg. Veg. Syst. Nat. 1: 349. 1817.

= *D. peregrinum* L., l.c.; subsp. *nanum* (DC.) Graebner in Ascherson & Graebner, Syn. 5(2): 701. 1929.

Delphinium mauritanicum Cosson, Bull. Soc. Bot. France 27: 68. 1880.

According to MAIRE (1964: 61); the occurrence of this species in Libya is doubtful.

Anemone coronaria L., Sp. Pl.: 539. 1753.

Clematis cirrhosa L., Sp. Pl.: 544. 1753.

Clematis flammula L., Sp. Pl.: 544. 1753.

Some infraspecific taxa are described of this species (PAMPANINI, 1930).

Ranunculus ficaria L., Sp. Pl.: 550. 1753.

= *Ficaria verna* Hudson, Fl. Angl.: 214. 1762.

= *F. ranunculoides* Roth, Tent. Fl. Germ. 1: 241. 1788.

Ranunculus trichophyllus Chaix in Vill., Hist. Pl. Dauph. 1: 335. 1786.

= *R. peucedanoides* Desf., Fl. Atl. 1: 444. 1798.

= *R. capillaceus* Thuill., Fl. Paris (ed. 2): 278. 1799.

= *R. aquatilis* L., Sp. Pl.: 556, 1753; var. *trichophyllus* (Chaix) Cosson & Germ., Fl. Paris: 13. 1841.

Ranunculus aquatilis L., Sp. Pl.: 556. 1753; incl. *R. saniculaefolius* Viv., Fl. Lib. Spec.: 29, t. 11, fig. 2. 1824.

Ranunculus bullatus L., Sp. Pl.: 550. 1753; var. **cyrenaicus** Pamp., Nuov. Giorn. Bot. Ital. N.S. 26: 212. 1919.

Ranunculus asiaticus L., Sp. Pl.: 552. 1753.

Several subspecific taxa are described from Libya; see PAMPANINI (1930) and MAIRE (1964).

Ranunculus sprunnerianus Boiss., Diagn. Pl. Or. Nov. (sér. 1) 1: 64. 1842.

Ranunculus paludosus Poiret, Voy. Barb. 2: 184. 1789; var. **amphicarpus** (Pamp.) Boulos, **comb. nova**

Basionym: *R. flabellatus* Desf., Fl. Atl. 1: 438. 1798; var. *amphicarpus* Pamp., Arch. Bot. Forlì 12, N.S. 2: 25. 1936.

Ranunculus paludosus Poiret, l.c.; var. **subcinerascens** Maire & Weiller; Bull. Soc. Hist. Nat. Afr. Nord 30: 256. 1939.

Ranunculus macrophyllus Desf., Fl. Atl. 1: 437. 1798.

= *R. lanuginosus* Poiret, Voy. Barb. 2: 183. 1789.

Ranunculus sardous Crantz, Stirp. Austr. 2: 84. 1763; var. **trilobus** (Desf.) Burnat, Fl. Alpes Mar. 1: 39. 1892.

= *R. trilobus* Desf., Fl. Atl. 1: 437. 1798.

= *R. sardous* Crantz, l.c.; subsp. *trilobus* (Desf.) Rouy & Fouc., Fl. Fr. 1: 109. 1893.

Ranunculus muricatus L., Sp. Pl.: 555. 1753.

Ranunculus cyclocarpus Pamp., Arch. Bot. Forlì 12, N.S. 2: 25. 1936.

Adonis microcarpa DC., Reg. Veg. Syst. Nat. 1: 223. 1817.

= *A. cupaniana* Guss., Fl. Sic. Syn. 2: 36. 1844.

= *A. dentata*, auct. non Delile, Fl. Aegypt. Ill., tab. 53, fig. 1. 1813.

Adonis aestivalis L., Sp. Pl. (ed. 2) 1: 771. 1762.

LEONTICACEAE (BERBERIDACEAE)

Leontice leontopetalum L., Sp. Pl.: 312. 1753.

Bongardia chrysogonum (L.) Endl., Ench. Bot.: 441. 1841.

= *Leontice chrysogonum* L., Sp. Pl.: 312. 1753.

= *Bongardia chrysogonum* (L.) Griseb., Spicil. Fl. Rumel. 1: 294. 1843.

ALI (1976: 5) uses the following name for this species: *Bongardia chrysogonum* (L.) Spach, Hist. Veg. Phan. 8: 65. 1839. However, SPACH (l.c.) did not give the above name in Latin; only the French name of the plant "Chrysogone" was used by him.

LAURACEAE

Laurus nobilis L., Sp. Pl.: 369. 1753.

HYPECOACEAE

Hypocoum procumbens L., Sp. Pl.: 124. 1753.

Hypocoum imberbe Sibth. & Sm., Fl. Graec. Prodr. 1: 107. 1806.
= *H. grandiflorum* Bentham, Cat. Pyr.: 91. 1826.

Hypocoum aequilobum Viv., Fl. Lib. Spec.: 7, tab. 3, fig. 3. 1824.

Hypocoum pendulum L., Sp. Pl.: 124. 1753.

Hypocoum geslini Cosson & Kralik, Bull. Soc. Bot. France 4: 522. 1857.

Hypocoum deuteroparviflorum Fedde, Pflanzenreich 40: 90. 1909.
= *H. parviflorum* Barbey, Herbor. Levant: 115, tab. 2. 1882.

PAPAVERACEAE

Glaucium corniculatum (L.) J. H. Rudolph, Fl. Jen. Pl.: 13. 1781.
= *Chelidonium corniculatum* L., Sp. Pl.: 506. 1753.

Glaucium flavum Crantz, Stirp. Austr. (ed. 1) 2: 133. 1763.
= *G. luteum* Scop., Fl. Carn. (ed. 2) 1: 369. 1772.

Roemeria hybrida (L.) DC., Reg. Veg. Syst. 2: 92. 1821; var. **hybrida**
= *Chelidonium hybridum* L., Sp. Pl.: 506. 1753.

Roemeria hybrida (L.) DC.; var. **orientalis** (Boiss.) Cosson, Compend. Fl. Atl.
2: 67. 1887.
= *R. orientalis* Boiss., Ann. Sci. Nat. Bot. (ser. 2) 16: 374. 1841.
= *R. hybrida* (L.) DC.; var. *dodecandra* (Forskål) Durand & Barr., Fl. Lib.
Prodr.: 6. 1910.
= *R. hybrida* (L.) DC.; subsp. *dodecandra* (Forskål) Maire in Jahandiez &
Maire, Cat. Pl. Maroc.: 257. 1932.
= *R. dodecandra* (Forskål) Stapf, Ergebn. Polak Exp. Pers., Denkschr.
Akad. Wien 51: 295. 1886.
= *Chelidonium dodecandrum* Forskål, Fl. Aegypt.-Arab.: 100. 1775.

Roemeria hybrida (L.) DC.; var. **simplex** (Fedde) Maire, Fl. Afr. Nord 11:
287. 1964.
= *R. simplex* Fedde, Pflanzenreich fasc. 40: 243. 1909.

Roemeria hybrida (L.) DC.; var. **tenuifolia** (Pamp.) Boulos, **stat. nov.**
Basionym: *R. tenuifolia* Pamp., Nuovo Giorn. Bot. Ital. N.S. 26: 211. 1919.
Synonyms: *R. hybrida* (L.) DC.; f. *tenuifolia* (Pamp.) Pamp., Arch. Bot.
Forlì 12, N.S. 2: 26. 1936.
R. hybrida (L.) DC.; subsp. *tenuifolia* (Pamp.) Maire, Fl. Afr. Nord 11:
287. 1964.

Papaver rhoeas L., Sp. Pl.: 507. 1753.

Papaver setigerum DC. in Lam., Fl. Fr. 6: 585. 1815.

= *P. somniferum* L., Sp. Pl.: 508. 1753; var. *setigerum* (DC.) Elk., Tent. Mon. Gen. Pap.: 30. 1839.

= *P. somniferum* L.; subsp. *setigerum* (DC.) Corb., Nouv. Fl. Normand.: 30. 1893.

= *P. somniferum* L.; subsp. *setigerum* (DC.) Briq., Prodr. Fl. Corse: 4. 1913.

Papaver hybridum L., Sp. Pl.: 506. 1753.

Papaver dubium L., Sp. Pl.: 1196. 1753.

Papaver pinnatifidum Moris, Fl. Sard. 1: 74. 1837.

FUMARIACEAE

Fumaria officinalis L., Sp. Pl.: 700. 1753.

Fumaria parviflora Lam., Encycl. 2: 567. 1788.

Fumaria densiflora DC., Cat. Hort. Monsp.: 113. 1813.

= *F. micrantha* Lag., Elench. Hort. Matrit.: 21. 1816.

Fumaria capreolata L., Sp. Pl.: 701. 1753.

Fumaria bastardii Boreau in Duchartre, Rev. Bot. 2: 359. 1847.

Fumaria macrocarpa Parl., Pl. Nov.: 5. 1842.

Fumaria agraria Lag., Gen. Sp. Nov.: 21. 1816.

Fumaria judaica Boiss., Diagn. Pl. Or. Nov. (sér. 2) 8: 15. 1849.

Fumaria flabellata Gasparr., Rendic. Accad. Sci. Fis. Mat. (Napoli) 1: 51. 1842.

CRUCIFERAE

Lepidium sativum L., Sp. Pl.: 644. 1753.

Cardaria draba (L.) Desv., J. Bot. Appl. 3: 163. 1814.

= *Lepidium draba* L., Sp. Pl.: 645. 1753.

Coronopus squamatus (Forskål) Ascherson, Fl. Brandenb. 1: 62. 1860.

= *Lepidium squamatum* Forskål, Fl. Aegypt.-Arab.: 117. 1775.

= *Coronopus procumbens* Gilib., Fl. Lith. 2: 52. 1781.

= *Senebiera coronopus* Poiret, Encycl. 7: 76. 1806.

Biscutella didyma L., Sp. Pl.: 653. 1753.

Several varieties are known from Libya, according to MAIRE (1967).

Thlaspi perfoliatum L., Sp. Pl.: 646. 1753.

According to PAMPANINI (1930: 217), this species is known from Gubba, Cyrenaica. However, MAIRE (1967) gives no mention of its occurrence in Libya.

Maresia nana (DC.) Batt. in Batt. & Trabut, Fl. Alg. 1: 68. 1888.
 = *Sisymbrium nanum* DC., Reg. Veg. Syst. Nat. 2: 486. 1821.
 = *Malcolmia nana* (DC.) Boiss., Fl. Or. 1: 222. 1867.
 = *M. confusa* Boiss., Fl. Or. 1: 221. 1867.
 = *M. binervis* (C. A. Meyer) Boiss., Ann. Sci. Nat. Bot. (sér. 2) 17: 71. 1842.

Torularia torulosa (Desf.) O. E. Schulz in Pflanzenreich 86: 214. 1924.
 = *Sisymbrium torulosum* Desf., Fl. Atl. 2: 84. 1798.
 = *Malcolmia torulosa* (Desf.) Boiss., Fl. Or. 1: 225. 1867.

Sisymbrium irio L., Sp. Pl.: 659. 1753.

Sisymbrium erysimoides Desf., Fl. Atl. 2: 84. 1798.

Sisymbrium polyceratium L., Sp. Pl.: 658. 1753.

Sisymbrium officinale (L.) Scop., Fl. Carn. (ed. 2) 2: 26. 1772.
 = *Erysimum officinale* L., Sp. Pl.: 660. 1753.

Sisymbrium orientale L., Cent. Pl. 2: 24. 1756.

Two varieties are listed by MAIRE (1976) from Garian, Tripolitania.

Sisymbrium runcinatum Lag. in DC., Reg. Veg. Syst. Nat. 2: 478. 1821.

Nasturtiopsis coronopifolia (Desf.) Boiss., Fl. Or. 1: 237. 1867; var. **ceratophylla** (Desf.) O. E. Schulz, Pflanzenreich 86: 255. 1924.
 = *Sisymbrium ceratophyllum* Desf., Fl. Atl. 2: 82, tab. 155. 1798.

Cakile maritima Scop., Fl. Carniol. (ed. 2) 2: 35. 1772.

Carrichtera annua (L.) DC., Mém. Mus. Hist. Nat. Paris 7: 250. 1821.
 = *Vella annua* L., Sp. Pl.: 641. 1753.

Zilla spinosa (L.) Prantl in Engler & Prantl, Nat. Pflanzenfam. 3(2): 174, fig. 112. 1891.
 = *Bunias spinosa* L., Mant.: 96. 1767.
 = *Zilla myagroides* Forskål, Fl. Aegypt.-Arab.: 121, n. 74, 75. 1775.

Zilla macroptera Cosson, Bull. Soc. Bot. France 3: 670. 1856.
 = *Z. spinosa* (L.) Prantl, l.c., subsp. *macroptera* (Cosson) Maire & Weiller in Maire, Fl. Afr. Nord 13: 8. 1967.

Zilla biparmata O. E. Schulz in Engler, Bot. Jahrb. 54, Beibl. 119: 55. 1916.
 = *Z. spinosa* (L.) Prantl, l.c., subsp. *biparmata* (O. E. Schulz) Maire & Weiller in Maire, Bull. Soc. Hist. Nat. Afr. Nord 30: 260. 1939. (per sphalm "*parmata*" in Maire & Weiller, l.c.), and in LEBRUN & STORK (1978: 365).

Eruca sativa Miller, Gard. Dict. (ed. 8), No. 1. 1768.

Sinapis pubescens L., Mant.: 95. 1767; var. **cyrenaica** Cosson & Daveau, Bull. Soc. Bot. France 36: 103. 1889.

Sinapis arvensis L., Sp. Pl.: 668. 1753.

Sinapis alba L., Sp. Pl.: 668. 1753.

Diplotaxis simplex (Viv.) Sprengel, Syst. Veg. 2: 914. 1825.

= *Sisymbrium simplex* Viv., Fl. Lib. Spec.: 36, tab. 16, fig. 2. 1824.

Diplotaxis harra (Forskål) Boiss., Fl. Or. 1: 388. 1867.

= *Sinapis harra* Forskål, Fl. Aegypt.-Arab.: 118. 1775.

Diplotaxis erucoides (L.) DC., Reg. Veg. Syst. Nat. 2: 631. 1821.

= *Sinapis erucoides* L., Cent. Pl. 2: 24. 1756.

Diplotaxis acris (Forskål) Boiss., Fl. Or. 1: 389. 1867.

= *Hesperis acris* Forskål, Fl. Aegypt.-Arab.: 118. 1775.

Diplotaxis cyrenaica (Durand & Barr.) Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30: 258. 1939.

= *D. erucoides* (L.) DC., l.c.; var. *cyrenaica* Durand & Barr., Fl. Lib. Prodr.: 16. 1910.

Diplotaxis muralis (L.) DC., Reg. Veg. Syst. Nat. 2: 634. 1821.

Brassica souliei (Batt.) Batt., Bull. Soc. Bot. France 40: 262. 1893.

= *Camelina souliei* Batt., Bull. Soc. Bot. France 36: ccxviii. 1889.

= *Sisymbrium amplexicaule* Desf., Fl. Atl. 2: 81, tab. 153. 1798.

= *Sinapis amplexicaulis* (Desf.) DC., Reg. Veg. Syst. Nat. 2: 610. 1821.

Brassica napus L., Sp. Pl.: 666. 1753.

Brassica rapa L., Sp. Pl.: 666. 1753.

= *B. campestris* L., Sp. Pl.: 666. 1753.

Brassica tournefortii Gouan, Obs. Bot.: 44, t. 20A. 1773.

Brassica gravinae Ten., Prodr. Fl. Nap.: xxxix. 1811.

Brassica nigra (L.) W. D. J. Koch in Röhling, Deutsch. Fl. (ed. 3) 4: 713. 1833.

= *Sinapis nigra* L., Sp. Pl.: 668. 1753.

Hirschfeldia incana (L.) Lagrèze-Fossat, Fl. Tarn et Garonne: 19. 1847.

= *Sinapis incana* L., Cent. Pl. 1: 19. 1755.

= *Erucastrum incanum* (L.) Koch, Syn. Fl. Germ. (ed. 1): 56. 1835.

= *Hirschfeldia adpressa* Moench, Meth.: 264. 1794.

Raphanus raphanistrum L., Sp. Pl.: 669. 1753.

Raphanus sativus L., Sp. Pl.: 669. 1753.

Escape from cultivation.

Eremophyton chevallieri (Barr.) Béguinot, Boll. Soc. Bot. Ital. 1913: 102. 1913.

= *Enarthrocarpus chevallieri* Barr. in Chevallier, Mém. Herb. Boissier 7: 2. 1900.

Enarthrocarpus pterocarpus (Pers.) DC., Reg. Veg. Syst. Nat. 2: 661. 1821.
= *Raphanus pterocarpus* Pers., Syn. 2: 209. 1807.

Enarthrocarpus strangulatus Boiss., Diagn. Pl. Or. Nov. (sér. 1) 8: 44. 1849.

Several varieties of this species are known from Libya (see PAMPANINI, 1930 and MAIRE, 1965).

Enarthrocarpus clavatus Delile ex Godron, Mém. Acad. Montp. (Sect. Médic.) 1: 412. 1853.

= *E. trabalis* Pomel, Nouv. Mat. Fl. Atl.: 538. 1875.

= *Brassica lyrata* Desf., Fl. Atl. 2: 96, tab. 166. 1798.

Erucaria pinnata (Viv.) Täckh. & Boulos, Publ. Cairo Univ. Herb. 5: 37. 1974.

= *Raphanus pinnatus* Viv., Fl. Lib. Spec.: 37. 1824.

= *Erucaria microcarpa* Boiss., Diagn. Pl. Or. Nov. (sér. 1) 8: 47. 1849.

= *Reboudia microcarpa* (Boiss.) Cosson, Compend. 2: 213. 1887.

= *R. pinnata* (Viv.) O. E. Schulz, Bot. Jahrb. 54, Beibl. 119: 56. 1916.

Rapistrum rugosum (L.) All., Fl. Ped. 1: 257. 1785.

= *Myagrurn rugosum* L., Sp. Pl.: 640. 1753.

Didesmus aegyptius (L.) Desv., J. Bot. Appl. 3: 160, tab. 25, fig. 11. 1814.

= *Myagrurn aegyptium* L., Sp. Pl.: 644. 1753.

Three varieties of this species are listed in MAIRE (1965).

Didesmus bipinnatus (Desf.) DC., Reg. Veg. Syst. Nat. 2: 659. 1821.

= *Sinapis bipinnata* Desf., Fl. Atl. 2: 97. 1798.

= *Rapistrum bipinnatum* (Desf.) Cosson & Kralik, Bull. Soc. Bot. France 4: 395. 1857.

Nasturtium officinale R. Br., in Aiton fil., Hort. Kew (ed. 2) 4: 110. 1812.

= *Sisymbrium nasturtium-aquaticum* L., Sp. Pl.: 657. 1753.

= *Cardamine fontanum* Lam., Encycl. 2: 185. 1786.

= *Nasturtium fontanum* (Lam.) Ascherson, Fl. Brandenb.: 32. 1864.

Rorippa islandica (Oeder) Borbás, Balaton Tav. Part. 2: 392. 1900.

= *Sisymbrium islandicum* Oeder, Fl. Dan.: 3, tab. 309. 1768.

= *Nasturtium palustre* DC., Reg. Veg. Syst. Nat. 2: 191. 1821.

Capsella bursa-pastoris (L.) Medicus, Pflanzengatt. 85. 1792.

= *Thlaspi bursa-pastoris* L., Sp. Pl.: 647. 1753.

Hymenolobus procumbens (L.) Fourr., Ann. Soc. Linn. Lyon 16: 338. 1868.

= *Lepidium procumbens* L., Sp. Pl.: 643. 1753.

= *Capsella procumbens* (L.) Fries, Novit. Fl. Suec. Mant. 1: 14. 1832.

Neslia paniculata (L.) Desv., J. Bot. Appl. 3: 162. 1814.

= *Myagrurn paniculatum* L., Sp. Pl.: 641. 1753.

= *Vogelia paniculata* (L.) Hornem., Hort. Hafn. 2: 594. 1815.

Erophila verna (L.) Chevall., Fl. Gén. Env. Paris 2: 898. 1827.

= *Draba verna* L., Sp. Pl.: 642. 1753.

= *Erophila vulgaris* DC., Reg. Veg. Syst. Nat. 2: 356. 1821.

Alyssum montanum L., Sp. Pl.: 650. 1753.

Alyssum minus (L.) Rothm., Feddes Repert. 50: 77. 1941.

= *Clypeola minor* L., Fl. Monsp.: 21. 1756.

= *Alyssum campestre* L., Sp. Pl. (ed. 2): 909. 1753; pro parte.

Lobularia libyca (Viv.) Webb & Berth., Hist. Nat. Iles Canar. 3(2): 90. 1837.

= *Lunaria libyca* Viv., Fl. Lib. Spec.: 34, tab. 16, fig. 1. 1824.

= *Koniga libyca* (Viv.) R. Br. in Denh. & Clappert., Narr. Trav. Afr., App.: 214-216. 1826.

Lobularia maritima (L.) Desv., J. Bot. Appl. 3: 162. 1814.

= *Clypeola maritima* L., Sp. Pl.: 652. 1753.

= *Alyssum maritimum* (L.) Lam., Encycl. 1: 98. 1783.

= *Koniga maritima* (L.) R. Br. in Denh. & Clappert., Narr. Trav. Afr., App.: 214-216. 1826.

Farsetia aegyptia Turra, Farset. Nov. Gen.: 5, t. 1. 1765.

= *Cheiranthus farsetia* L., Mant.: 94. 1767.

Farsetia ramosissima Hochst., Flora 24(1), Intelligenzblatt 2: 42. 1841.

Matthiola fruticulosa (L.) Maire in Jahandiez & Maire, Cat. Pl. Maroc 2: 311. 1932.

= *Cheiranthus fruticosus* L., Sp. Pl.: 662. 1753.

= *C. tristis* L., Syst. Nat. (ed. 10): 1134. 1759.

= *Matthiola tristis* (L.) R. Br. in Aiton fil., Hort. Kew (ed. 2) 4: 120. 1812.

Matthiola sinuata (L.) R. Br. in Aiton fil., Hort. Kew (ed. 2) 4: 120. 1812.

= *Cheiranthus sinuatus* L., Sp. Pl. (ed. 2): 926. 1763.

Matthiola longipetala (Vent.) DC., Reg. Veg. Syst. Nat. 2: 174. 1821.

= *Cheiranthus longipetalus* Vent., Descr. Pl. Jard. Cels: t. 93. 1802.

= *Matthiola oxyceras* DC., Reg. Veg. Syst. Nat. 2: 173. 1821.

= *M. pseudoxyceras* Conti, Mém. Herb. Boissier 18: 71. 1900.

Several infraspecific taxa of this species are known from Libya.

Matthiola lunata DC., Reg. Veg. Syst. Nat. 2: 176. 1821.

Matthiola tricuspidata (L.) R. Br. in Aiton fil., Hort. Kew (ed. 2) 4: 120. 1812.

= *Cheiranthus tricuspidatus* L., Sp. Pl.: 663. 1753.

= *Triceras tricuspidatum* (L.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 24: 196. 1933.

Matthiola incana (L.) R. Br. in Aiton fil., Hort. Kew (ed. 2) 4: 119. 1812.

= *Cheiranthus incanus* L., Sp. Pl.: 662. 1753.

Escape from cultivation.

- Matthiola pumilio** (Sibth. & Sm.) DC., Reg. Veg. Syst. Nat. 2: 177. 1821.
= *Cheiranthus pumilio* Sibth. & Sm., Fl. Graec. Prodr. 2: 26. 1813.
= *Matthiola humilis* DC., Reg. Veg. Syst. Nat. 2: 177. 1821.
- Matthiola parviflora** (Schousboe) R. Br. in Aiton fil., Hort. Kew (ed. 2) 4: 121. 1812.
= *Cheiranthus parviflorus* Schousboe, Vextr. Marok.: 105. 1800.
- Morettia philaena** (Delile) DC., Reg. Veg. Syst. Nat. 2: 426. 1821.
- Conringia orientalis** (L.) Andr. in DC., Reg. Veg. Syst. Nat. 2: 508. 1821.
= *Brassica orientalis* L., Sp. Pl.: 666. 1753.
- Moricandia nitens** (Viv.) Durand & Barr., Prodr. Fl. Lib.: 15. 1910; var. **nitens**
= *Hesperis nitens* Viv., Fl. Lib. Spec.: 38, tab. 5, fig. 3. 1824.
= *Moricandia dumosa* Boiss., Diagn. Pl. Or. Nov. (sér. 1) 8: 25. 1849.
- Moricandia nitens** (Viv.) Durand & Barr.; var. **longisiliqua** Pamp., Arch. Bot. Forlì 12, N.S. 2: 27. 1936.
- Pseuderucaria clavata** (Boiss. & Reuter) O. E. Schulz, Bot. Jahrb. 54, Beibl. 119: 54. 1916.
= *Moricandia clavata* Boiss. & Reuter in Boiss., Diagn. Pl. Or. Nov. (sér. 2) 5: 25. 1856.
- Diceratella sahariana** R. Corti, Nuovo Giorn. Bot. Ital., N.S. 45: ccxii. 1938.
- Strigosella africana** (L.) Botsch. in Bot. Žurn. 57: 1038. 1972.
= *Malcolmia africana* (L.) R. Br., in Aiton fil., Hort. Kew (ed. 2) 4: 121. 1812.
= *Hesperis africana* L., Sp. Pl.: 663. 1753.
- Eremobium aegyptiacum** (Sprengel) Ascherson & Schweinf. ex Boiss., Fl. Or. Suppl.: 30. 1888.
= *Malcolmia aegyptiaca* Sprengel, Syst. Veg. 2: 898. 1825.
- Ammosperma cinereum** (Desf.) Hooker fil., in Bentham & Hooker, Gen. Plant. 1: 82. 1862.
= *Sisymbrium cinereum* Desf., Fl. Atl. 2: 83, tab. 157. 1798.
= *Diploaxis cinerea* (Desf.) Pomel, Nouv. Mat.: 359. 1875.
= *Moricandia cinerea* (Desf.) Cosson, Compend. 2: 154. 1887.
- Oudneya deserti** (Cosson & Durand) Bullock, Kew Bull. 19: 201. 1965.
= *Henonia deserti* Cosson & Durand, Bull. Soc. Bot. France 2: 243. 1855.
= *Henophyton deserti* (Cosson & Durand) Cosson, Ann. Sci. Nat. Bot. (sér. 4) 4: 282. 1856.
= *Oudneya africana* R. Br., in Denh. & Clappert., Narr. Trav. Afr., App.: 219. 1826; excl. syn. Viviani.
- Anastatica hierochuntica** L., Sp. Pl.: 641. 1753.
- Savignya parviflora** (Delile) Webb in Parl., Giorn. Bot. Ital. 2: 215. 1847.
= *Lunaria parviflora* Delile, Fl. Aegypt.-Arab. Ill.: 19, n. 584. 1813.

- = *Savignya aegyptiaca* DC., Reg. Veg. Syst. Nat. 2: 283. 1821.
- = *S. longistyla* Boiss. & Reuter in Boiss., Diagn. Pl. Or. Nov. (sér. 2) 5: 27. 1856.

Schouwia thebaica Webb in Parlatore, Giorn. Bot. Ital. Anno 2, vol. 1(3): 219. 1849.

- = *S. schimperi* Jaub. & Spach, Illustr. 3: 145. 1850.

Muricaria prostrata (Desf.) Desv., J. Bot. 3: 159, tab. 25, fig. 2. 1814.

- = *Bunias prostrata* Desf., Fl. Atl. 2: 76, tab. 150. 1798.

Notoceras bicornis (Sol.) Caruel, Fl. Toscan.: 536. 1860.

- = *Erysimum bicornis* Sol. in Aiton, Hort. Kew. (ed. 1) 2: 394. 1789.
- = *Notoceras canariense* R. Br., in Aiton fil., Hort. Kew. (ed. 2) 4: 117. 1812.

Lonchophora capiomontiana Durieu in Duchartre, Rev. Bot. 2: 432. 1847.

CAPPARACEAE

Capparis spinosa L., Sp. Pl.: 503. 1753.

Capparis deserti (Zoh.) Täckh. & Boulos, Publ. Cairo Univ. Herb. 5: 14. 1974.

- = *C. spinosa* L., l.c.; var. *deserti* Zoh., Bull. Res. Council Israel, sect. D, Bot. 8(2): 54. 1960.

Capparis orientalis Duhamel, Traité Arbr. Arbust. (ed. 2) 1: 142. 1800-1801.

- = *C. rupestris* Sibth. & Sm., Fl. Graec.: tab. 487. 1825.

Capparis cartilaginea Decne, Ann. Sci. Nat. Bot. (sér. 2) 3: 273. 1834.

- = *C. galeata* Fresen., Mus. Senckenb. 2: 111. 1836.

Capparis aegyptia Lam., Encycl. 1: 605. 1785; non Sieber ex Presl in Oken, Isis 21: 274. 1828.

- = *C. spinosa* L., l.c.; var. *aegyptia* (Lam.) Boiss., Fl. Or. 1: 420. 1867.

Capparis leucophylla DC., Prodr. 1: 246. 1824.

- = *C. sicula* Duhamel, Traité Arbr. Arbust. 1: 159. 1755.

Maerua crassifolia Forskål, Fl. Aegypt.-Arab.: cxiii, 104. 1775.

- = *M. uniflora* Vahl, Symb. Bot. 1: 36. 1790.
- = *M. rigida* R. Br. ex G. Don, Gen. Syst. 1: 286. 1831.

CLEOMACEAE

Cleome droserifolia (Forskål) Delile, Fl. Egypte: 250. 1813.

- = *Roridula droserifolia* Forskål, Fl. Aegypt.-Arab.: lxii, 35. 1775.

Cleome chrysantha Decne, Ann. Sci. Nat. Bot. (sér. 2) 3: 274. 1835.

Cleome amblyocarpa Barr. & Murb. in Murb., Constr. Fl. Tun. (sér. 2): 25. 1905.

- = *C. arabica* auct. non L., Cent. Pl. 1: 20. 1755.

Gynandropsis gynandra (L.) Briq., *Annuaire Conserv. Jard. Bot. Genève* 17: 382. 1914.

= *Cleome gynandra* L., *Sp. Pl.*: 671. 1753.

= *C. pentaphylla* L., *Sp. Pl.* (ed. 2): 938. 1763.

= *Gynandropsis pentaphylla* (L.) DC., *Prodr.* 1: 238. 1824.

RESEDACEAE

Ochradenus baccatus Delile, *Fl. Egypte* 236, t. 31. 1813.

Reseda alba L., *Sp. Pl.*: 449. 1753.

= *R. undata* Poiret, *Voy. Barb.* 2: 171. 1789.

Reseda decursiva Forskål, *Fl. Aegypt.-Arab.*: lxvi. 1775.

= *R. eremophila* Boiss., *Diagn. Pl. Or. Nov.* (sér. 1) 8: 54. 1849.

Reseda arabica Boiss., *Diagn. Pl. Or. Nov.* (sér. 1) 1: 6. 1843.

Reseda odorata L., *Syst. Nat.* (ed. 10) 2: 1046. 1759.

According to MEIKLE (1977: 181), this species is native in Egypt and Cyrenaica, naturalized elsewhere; commonly cultivated.

Reseda lutea L., *Sp. Pl.*: 449. 1755.

Reseda petrovichiana Müller-Arg. in Durand & Barr., *Fl. Lib. Prodr.*: 27, tab. 2. 1910.

Reseda luteola L., *Sp. Pl.*: 448. 1753.

Reseda pampaniniana Maire & Weiller, *Bull. Soc. Hist. Nat. Afr. Nord* 30: 261, pl. 17. 1939.

Oligomeris linifolia (Vahl) Macbride, *Contr. Gray Herb. N.S.* 53: 13. 1918.

= *Reseda linifolia* Vahl in Hornem., *Hort. Hafn.* 2: 501. 1815.

= *R. subulata* Delile, *Fl. Aegypt. Ill.*: 63. 1813; nom. nud. (in reprint, p. 15).

For other synonyms see ABDALLAH (1967).

Randonia africana Cosson, *Bull. Soc. Bot. France* 6: 392. 1859.

Caylusea hexagyna (Forskål) M. L. Green, *Prop. Brit. Bot.*: 102. 1929.

= *Reseda hexagyna* Forskål, *Fl. Aegypt.-Arab.*: 92. 1775.

For other synonyms see ABDALLAH (1967).

CRASSULACEAE

Sedum laconicum Boiss. & Heldr. in Boiss., *Diagn. Pl. Or. Nov.* (sér. 1) 6: 55. 1845.

Sedum sediforme (Jacq.) Pau, Act. Mem. Prim. Congr. Nat. Esp. Zaragoza: 246. 1909.

= *Sempervivum sediforme* Jacq., Hort. Vindob. 1: 35, t. 81. 1770.

= *Sedum nicaeense* All., Fl. Pedem. 2: 122, t. 90, fig. 1. 1785.

= *S. altissimum* Poiret in Lam., Encycl. 4: 634. 1796.

Sedum bracteatum Viv., Fl. Lib. Spec.: 24, t. 8, fig. 3. 1824.

Sedum caespitosum (Cav.) DC., Prodr. 3: 405. 1828.

= *Crassula cespitosa* Cav., Icones 1: 50, t. 69, fig. 2. 1791.

= *Sedum rubrum* (L.) Thell., Feddes Repert. 10: 290. 1912.

= *Tillaea rubra* L., Sp. Pl.: 129. 1753.

Sedum rubens L., Sp. Pl.: 432. 1753.

= *Crassula rubens* (L.) L., Syst. Nat. (ed. 10): 969. 1759.

Sedum album L., Sp. Pl.: 432. 1753; var. **micranthum** (Bast.) DC., Prodr. 3: 106. 1828.

= *S. micranthum* Bast., Essai Fl. Maine et Loire: 167. 1809.

Sedum acre L., Sp. Pl.: 432. 1753.

Sedum cretense Maire, Fl. Afr. Nord 14: 356. 1977.

= *S. creticum* Boiss., Diagn. Pl. Or. Nov. (sér. 2) 10: 16. 1849; non Presl, Oken, Isis 21: 273. 1828.

Sedum mirum Pamp., Arch. Bot. Forlì 12, N.S. 2: 28. 1936.

Sedum cepaea L., Sp. Pl.: 431. 1753.

MAIRE (1977) recorded this species from Apollinia, Cyrenaica. However, WEBB (1964) considers the same species endemic to Southern Europe, mainly in the mountains.

Sedum litoreum Guss., Pl. Rar.: 185, t. 37, fig. 2. 1826.

Sedum barcense Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30: 279. 1939.

Sedum cyrenaicum Brullo & Furnari, loco incognito.

Umbilicus horizontalis (Guss.) DC., Prodr. 3: 400. 1828.

= *Cotyledon horizontalis* Guss., Ten. Fl. Nap. Prodr. App.: 5, 13. 1826.

Umbilicus intermedius Boiss., Fl. Or. 2: 769. 1872.

= *Cotyledon intermedia* (Boiss.) Pamp., Prodr. Fl. Ciren.: 238. 1930.

MAIRE (1977) treats the above two species of *Umbilicus* as subspecific taxa of *Cotyledon umbilicus-veneris* L.

Crassula alata (Viv.) Berger in Engler & Prantl, Pflanzenfam. (ed. 2) 18a: 389. 1930.

= *Tillaea alata* Viv., Plant. Aegypt. Dec. 4: 16. 1830.

= *T. trichopoda* Fenzl ex Boiss., Fl. Or. 2: 767. 1872.

- Crassula vaillantii** (Willd.) Roth, Enum. Plant. Phaen. 1: 902. 1827.
= *Tillaea vaillantii* Willd., Sp. Pl. 1: 720. 1798.
= *Bulliarda vaillantii* DC., Pl. Succ. Hist.: 74. 1801.

SAXIFRAGACEAE

- Saxifraga hederacea** L., Sp. Pl.: 405. 1753.
Saxifraga tridactylites L., Sp. Pl.: 404. 1753.

ROSACEAE

- Rubus ulmifolius** Schott, Isis 1818: 821. 1818.
Rubus cyrenaicae Hruby in Pamp., Arch. Bot. Forlì 12, N.S. 2: 28. 1936.
Rubus sanctus Schreber, Ic. Descr. Pl. 1: 15, t. 8. 1766.
Rubus mussolinii Hruby (= *R. cyrenaicae* × *ulmifolius*), in Pamp., Arch. Bot. Forlì 12, N.S. 2: 29. 1936.
Rubus pampaninii Hruby (= *R. cyrenaicae* × *sanctus*), in Pamp., Arch. Bot. Forlì 12, N.S. 2: 30. 1936.
Poterium verrucosum Link ex G. Don, Gen. Syst. 2: 595. 1832.
= *Sanguisorba minor* Scop., Fl. Carn. (ed. 2) 1: 110. 1772; subsp. *verrucosa* (Link ex G. Don) Holmboe, Veg. Cypr.: 100. 1914.
Poterium sanguisorba L., Sp. Pl.: 994. 1753.
= *Sanguisorba minor* Scop., l.c.; subsp. *minor*
Sarcopoterium spinosum (L.) Spach, Ann. Sci. Nat. Bot. (ser. 3) 5: 43. 1846.
= *Poterium spinosum* L., Sp. Pl.: 994. 1753.
= *Sanguisorba spinosa* (L.) Bertol., Fl. It. 2: 185. 1836.
Prunus domestica L., Sp. Pl.: 475. 1753.
Probably naturalized.

NEURADACEAE

- Neurada procumbens** L., Sp. Pl.: 441. 1753.

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