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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All available published works have been used to complete this list, as well as the unpublished records by the author, who worked at the University of Libya from September 1966 to July 1971.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records within Libya and any other distribution data are excluded, except in some particular cases or when a previously unpublished new record to the flora is involved.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.-Pétersb. 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.

**Forsskalea tenacissima** L., Opobalsam. Decl.: 18. 1764.

### SANTALACEAE

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

### ARISTOLOCHIACEAE

**Aristolochia** sp.

### RAFFLESIACEAE (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.
- Haloxyton 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.
- Haloxyton 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. articu-*  
*lata* 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.  
**Gymnocarpos 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.
- = *Kohlruschia 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.

**Petrorhagia 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.

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

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

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

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

**Diploaxis eruroides** (L.) DC., Reg. Veg. Syst. Nat. 2: 631. 1821.

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

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

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

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

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

**Diploaxis 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.

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

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

= *Myagrimum 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.

= *Myagrimum 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 tricuspидatus* L., Sp. Pl.: 663. 1753.

= *Triceras tricuspидatum* (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.  
 = *Diplotaxis 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 caespitosa* 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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