

NOMENCLATURAL CHANGES IN THE *LIST OF BRITISH VASCULAR PLANTS*

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ABSTRACT

This paper lists some changes considered necessary or advisable in the nomenclature of the *List of British Vascular Plants* (1958) prepared by J. E. Dandy for the British Museum (Natural History) and the Botanical Society of the British Isles. Explanations of the changes are given. One new name in *Erica* is proposed, in a contribution by R. Ross.

The ten years which have elapsed since the publication of the *List of British Vascular Plants* have seen exceptional activity in taxonomic research on species of vascular plants occurring in the British Isles, much of it inspired by the preparation of *Flora Europaea*, a major undertaking which has already, within this period, produced two published volumes. With botanists all over Europe working on this project, as well as carrying out their usual researches, it is not surprising that numerous changes affecting the taxonomy and nomenclature of British plants have been proposed, some of which have already been adopted in the second editions of A. R. Clapham, T. G. Tutin & E. F. Warburg's *Flora of the British Isles* (1962) and *Excursion Flora of the British Isles* (1968). Certainly some of the name changes are necessary under the International Code, being nomenclatural changes in the strict sense, *i.e.* the results of bibliographical investigation or the examination of types. The great majority of the proposed name changes, however, are simply the consequences of taxonomic re-arrangement. Whenever a specific or infra-specific taxon is transferred from one genus to another its name changes; and the same thing happens whenever a species is reduced to subspecific rank, or a subspecies raised to specific level. Many taxonomic re-arrangements of course result from discoveries made in the course of research (as when supposed taxa are united or divided); others, however, may merely reflect idiosyncratic views about the rank or position of taxa whose limits are not changed at all. It would therefore be unwise to accept all the proposed changes willy-nilly. A full assessment of the number of these changes to be adopted in any future edition of the *List of British Vascular Plants* must await the completion of *Flora Europaea*, especially as further changes will no doubt be proposed in the later volumes of that work.

Nevertheless it is important to indicate to British botanists the changes in nomenclature which are necessary or advisable at the present time, and these are accordingly listed below. The list is restricted to those changes which are necessary on purely nomenclatural grounds, together with some which, though due to taxonomic re-arrangement, are likely to be non-controversial. Only taxa already in the *List of British Vascular Plants* are included; proposed additions and segregates do not come within the scope of this paper.

All the changes listed are explained by synonymy, discussion or reference to literature. Some of them have already been adopted in Clapham, Tutin & Warburg's *Flora of the British Isles* ed. 2 (1962) and *Excursion Flora of the British Isles* ed. 2 (1968); in such cases references to these two works are given by the abbreviations *CTW* ed. 2 and *CTW Exc* ed. 2 respectively.

The numbering of the entries follows that of the *List of British Vascular Plants*.

- 15/2 ASPLENIUM BILLOTHI F. W. Schultz, *Flora (Regensb.)* **28**, 738 (1845). *CTW Exc* ed. 2, 13.
[*A. rotundatum* Kaulf. ex Holl, *Flora (Regensb.)* **13**, 374 (1830), nom. nud.]

- A. cuneatum* F. W. Schultz, op. cit. **27**, 807 (1844), non *A. cuneatum* Lam. (1786).
 [A. *obovatum* auct., non Viv.]
 Cf. I. Manton & T. Reichstein, *Bauhinia* **2**, 79 (1962); A. C. Jermy, *Brit. Fern Gaz.* **9**, 119 (1963); J. A. Crabbe, A. C. Jermy & J. D. Lovis, *Fl. Eur.* **1**, 16 (1964). British plants of this species were included under *A. lanceolatum* Huds., *Fl. Angl.* ed. 2. 454 (1778), but this name is not applicable, being a superfluous substitute for *A. trichomanes-ramosum* L. (1753) as well as a later homonym of *A. lanceolatum* Forsk. (1775).
- 18/2 *ATHYRIUM DISTENTIFOLIUM* Tausch ex Opiz, *Kratos (Zeitschr. Gymnas.)* **1819(4)**, 14 (1820). *CTW Exc* ed. 2, 15.
Polypodium molle All., *Fl. Pedemont.* **2**, 287 (1785), non *P. molle* Schreb. (1771).
Aspidium alpestre Hoppe, *Neu. Bot. Taschenb.* **1805**, 216 (1805).
Athyrium alpestre (Hoppe) Rylands in T. Moore, *Ferns Gr. Brit. Irel.*, sub t. 7 (1857), non *A. alpestre* Clairv. (1811).
 Cf. A. C. Jermy, *Brit. Fern Gaz.* **9**, 119 (1963), *Fl. Eur.* **1**, 18 (1964).
- 21/2 *DRYOPTERIS PSEUDOMAS* (Wollaston) Holub & Pouzar, *Fol. Geobot. Phytotax. (Praha)* **2**, 332 (1967).
D. filix-mas var. *borreri* Newm., *Hist. Brit. Ferns* [ed. 3], 189 (1854).
Lastrea pseudomas Wollaston in Irvine, *The Phytologist* **1**, 172 (1855) ('pseudo-mas').
 [Dryopteris *borreri* T. Moore, *Index Fil.*, 349 (1862), nom. syn.]
D. borreri (Newm.) Tavel, *Verhandl. Schweiz. Naturf. Ges.* **118**, 153 (1937).
- 21/6 *DRYOPTERIS CARTHUSIANA* (Vill.) H. P. Fuchs, *Bull. Soc. Bot. France* **105**, 339 (1959). *CTW* ed. 2, 32. *CTW Exc* ed. 2, 18.
Polypodium spinulosum O. F. Muell., *Fl. Dan.* **4(12)**, 5 (1777), non *P. spinulosum* Burm. f. (1768).
P. carthusianum Vill., *Hist. Pl. Dauph.* **1**, 292 (1786).
P. lanceolatocristatum Hoffm. in Roem. & Usteri, *Bot. Mag.* **3(9)**, 9 (1790).
Dryopteris spinulosa Watt, *Can. Naturalist New Ser.* **3**, 159 (1866), nom. illegit.
D. lanceolatocristata (Hoffm.) Alston, *Watsonia* **4**, 41 (1957).
 Cf. A. C. Jermy, *Brit. Fern Gaz.* **9**, 119 (1963); V. H. Heywood, *Fl. Eur.* **1**, 21 (1964).
- 24/1 *THELYPTERIS LIMBOSPERMA* (All.) H. P. Fuchs, *Amer. Fern J.* **48**, 144 (1958).
CTW ed. 2, 36. *CTW Exc* ed. 2, 11.
Polypodium montanum Vogler, *Diss. Polypod.*, 1 (1781), non *P. montanum* Lam. (1779).
 [P. *oreopteris* Ehrh. ex Willd., *Fl. Berol. Prodr.*, 292 (1787), nom. syn.]
P. limbospermum All., *Auct. Fl. Pedemont.*, 49 (1789, Jan.-Mar.).
P. oreopteris Ehrh., *Beitr. Naturk.* **4**, 44 (1789, ?Apr.).
Thelypteris oreopteris (Ehrh.) Slosson in Rydb., *Fl. Rocky Mount.*, 1043, 1069 (1918).
 Cf. A. C. Jermy, *Fl. Eur.* **1**, 13 (1964).
- 24A *GYMNOCARPIUM* Newm., *The Phytologist* **4**, 371 (1851).
Thelypteris sect. *Carpogymnia* H. P. Fuchs in Janchen, *Cat. Fl. Austriae* **1**, 898 (1959).
Carpogymnia (H. P. Fuchs) Á. & D. Löve, *Univ. Colorado Stud. Ser. Biol.* **24**, 8 (1966).
- Though *Gymnocarpium* was formerly united with *Thelypteris* the two genera are so distinct that they are placed in different families by some modern authors: cf. A. C. Jermy, *Fl. Eur.* **1**, 13, 22 (1964); Á. & D. Löve, *Taxon* **16**, 191 (1967). The latter authors have proposed a
- Watsonia* **7** (3), 1969.

new generic name, *Carpogymnia*, to replace *Gymnocarpium*, on the ground that this is to be regarded as a later homonym of '*Gymnocarpium* Steud.' (1821); and in support of their action they cite an opinion given by the General Committee in *Taxon* **15**, 287 (1966). In fact Steudel (*Nomencl. Bot.*, 385; 1821) did not publish '*Gymnocarpium* Steud.' but actually printed '*Gymnocarpium*. Forsk.', meaning *Gymnocarpus* Forsk. (1775); and De Candolle (*Prodr.* **3**, 369; 1828), who adopted the spelling '*Gymnocarpium*', also attributed the name to 'Forsk.' With due respect to the opinion of the General Committee, it is difficult to see how a mere error or 'correction' of spelling can be accepted as valid publication of a new name, and until this matter has been given further consideration the name *Gymnocarpium* is to be retained. Cf. F. S. Crosswhite, *Taxon* **16**, 109–112 (1967); R. E. Holttum, *Taxon* **17**, 529 (1968).

- 24/4 GYMNOCARPIUM DRYOPTERIS (L.) Newm., *The Phytologist* **4**, 371 (1851).
CTW Exc ed. 2, 20.
Polypodium dryopteris L., *Sp. Pl.*, 1093 (1753).
Thelypteris dryopteris (L.) Slosson in Rydb., *Fl. Rocky Mount.*, 1044, 1069 (1918).
Carpogymnia dryopteris (L.) Á. & D. Löve, *Univ. Colorado Stud. Ser. Biol.* **24**, 8 (1966).
 Cf. A. C. Jermy, *Brit. Fern Gaz.* **9**, 119 (1963), *Fl. Eur.* **1**, 22 (1964).
- 24/5 GYMNOCARPIUM ROBERTIANUM (Hoffm.) Newm., *The Phytologist* **4**, 371 (1851). *CTW Exc* ed. 2, 20.
Polypodium robertianum Hoffm., *Deutsch. Fl.* 1796, Add. Emend. (1796).
Thelypteris robertiana (Hoffm.) Slosson in Rydb., *Fl. Rocky Mount.*, 1044, 1069 (1918).
Carpogymnia robertiana (Hoffm.) Á. & D. Löve, *Taxon* **16**, 191 (1967).
 Cf. A. C. Jermy, *Brit. Fern Gaz.* **9**, 119 (1963), *Fl. Eur.* **1**, 22 (1964).
- 46/17 RANUNCULUS OMIOPHYLLUS Ten., *Fl. Nap.* **4**, 338 (1830). *CTW* ed. 2, 78.
CTW Exc ed. 2, 36.
R. lenormandii F. W. Schultz, *Flora (Regensb.)* **20**, 726 (1837) ('*Lenormandi*').
 Cf. C. D. K. Cook, *Fl. Eur.* **1**, 237 (1964), *Watsonia* **6**, 258 (1966), *Mitt. Bot. Staatssamml. München* **6**, 90 (1966).
- 46/22b RANUNCULUS PELTATUS Schrank, *Baier. Fl.* **2**, 103 (1789). *CTW* ed. 2, 81 (excl. subsp. *pseudofluitans*). *CTW Exc* ed. 2, 37.
R. aquatilis subsp. *peltatus* (Schrank) Syme in Sowerby, *Engl. Bot.* ed. 3, **1**, 19 (1863).
 Cf. C. D. K. Cook, *Fl. Eur.* **1**, 237 (1964), *Mitt. Bot. Staatssamml. München* **6**, 113 (1966).
- 46/22c RANUNCULUS PENICILLATUS (Dumort.) Bab., *Man. Brit. Bot.* ed. 7, 7 (1874).
Batrachium penicillatum Dumort., *Bull. Soc. Bot. Belg.* **2**, 216 (1863).
Ranunculus aquatilis var. *pseudofluitans* Syme in Sowerby, *Engl. Bot.* ed. 3, **1**, 20 (1863) ('*pseudo-fluitans*').
 [R. *pseudo-fluitans* Newbould ex Syme, loc. cit. (1863), nom. syn.]
R. pseudofluitans (Syme) Newbould ex Baker & Foggitt, *Thirsk Nat. Hist. Soc. Bot. Exch. Club, Cur. Rep.* **1864**, 5 (1865).
R. heterophyllus subsp. *pseudofluitans* (Syme) Moore & More, *Contrib. Cyb. Hibern.*, 5 (1866).
R. aquatilis subsp. *pseudofluitans* (Syme) Clapham in Clapham, Tutin & Warb., *Fl. Brit. Is.*, 99 (1952).
 [R. *aquatilis* subsp. *sphaerospermus* Clapham, op. cit., 100 (1952) pro parte, non *R. sphaerospermus* Boiss. & Blanche.]
R. calcareus Butcher, *Naturalist* **1960**, 125 (1960).
 [R. *peltatus* subsp. *pseudofluitans* (Syme) C. D. K. Cook in Clapham,

Tutin & Warb., *Fl. Brit. Is.* ed. 2, 81 (1962), comb. invalid., basion. non cit.]

Cf. C. D. K. Cook, *Mitt. Bot. Staatssamml. München* 6, 155 (1966).

66/7 FUMARIA DENSIFLORA DC., *Cat. Pl. Hort. Bot. Monspel.*, 113 (1813). *CTW Exc* ed. 2, 50.

F. micrantha Lag., *Gen. Sp. Pl.*, 21 (1816).

Cf. P. D. Sell, *Fl. Eur.* 1, 257 (1964).

97/7 *CARDAMINE RAPHANIFOLIA POURT., *Hist Mém. Acad. Sci. Toulouse* 3, 310 (1788). *CTW* ed. 2, 163.

C. latifolia Vahl, *Symb. Bot.* 2, 77 (1791).

Cf. B. M. G. Jones, *Fl. Eur.* 1, 287 (1964).

100/6 ARABIS SCABRA All., *Auct. Synops. Meth. Stirp. Horti Taurin.*, 22 (1773); reimpr. in *Mél. Phil.-mat. Soc. Turin* 5, 74 (1774). *CTW Exc* ed. 2, 73.

A. stricta Huds., *Fl. Angl.* ed. 2, 292 (1778).

The name *A. stricta* has been used for this species, with *A. scabra* All. cited as a synonym; cf. B. M. G. Jones, *Fl. Eur.* 1, 293 (1964). Evidently there has been misunderstanding about dates, due to the fact that Allioni at different times gave the name *A. scabra* to two quite independent species based on different types. *A. scabra* All. (1773), based on species n. 453 of Haller's *Hist. Stirp. Indig. Helvet.* (1768), is the correct name for the species which has recently been called *A. stricta* but was in fact formerly known to British botanists as *A. scabra*; cf. G. C. Druce, *Brit. Pl. List* ed. 2, 7 (1928), *Comit. Fl. Brit. Is.*, 20 (1932). The later *A. scabra* All., *Fl. Pedemont.* 1, 268 (1785), based on Haller's species n. 447, is a synonym of *A. pumila* Jacq., which is not a British species.

113/8 VIOLA PERSICIFOLIA Schreb., *Spicil. Fl. Lips.*, 163 (1771). *CTW Exc* ed. 2, 83. *V. stagnina* Kit. in Schult., *Österr. Fl.* ed. 2, 1, 426 (1814).

Cf. D. H. Valentine, H. Merxmüller & A. Schmidt, *Fl. Eur.* 2, 275 (1968).

115/2 *HYPERICUM INODORUM Mill., *Gard. Dict.* ed. 8, n. 6 (1768). *CTW Exc* ed. 2, 88.

H. elatum Aiton, *Hort. Kew.* 3, 104 (1789).

Cf. N. K. B. Robson, *Not. R. Bot. Gard. Edin.* 27, 185 (1967), *Fl. Eur.* 2, 263 (1968).

130 PETRORHAGIA (Ser.) Link, *Handb. Erkenn. Gewächse* 2, 235 (1831).

Gypsophila sect. *Petrorhagia* Ser. in DC., *Prodr.* 1, 354 (1824).

Kohlrauschia Kunth, *Fl. Berol. Fam. Nat. Dispos.* 1, 108 (1838).

Cf. P. W. Ball & V. H. Heywood, *Bull. Brit. Mus. (Nat. Hist.) Bot.* 3, 119-172 (1964).

130/1 PETRORHAGIA NANTEUILII (Burnat) Ball & Heywood, *Bull. Brit. Mus. (Nat. Hist.) Bot.* 3, 164 (1964).

Dianthus nanteuilii Burnat, *Fl. Alp. Marit.* 1, 221 (1892).

Kohlrauschia nanteuilii (Burnat) Ball & Heywood, *Watsonia* 5, 115 (1962).

[*K. prolifera* auct., non (L.) Kunth.]

[*Petrorhagia prolifera* auct., non (L.) Ball & Heywood.] *CTW Exc* ed. 2, 93.

Cf. P. W. Ball, *Fl. Eur.* 1, 188 (1964).

130/2 *PETRORHAGIA SAXIFRAGA (L.) Link, *Handb. Erkenn. Gewächse* 2, 235 (1831).

Dianthus saxifragus L., *Sp. Pl.*, 413 (1753).

Kohlrauschia saxifraga (L.) Dandy, *Watsonia* 4, 42 (1957).

Cf. P. W. Ball, *Fl. Eur.* 1, 187 (1964).

131/10 CERASTIUM DIFFUSUM Pers., *Synops. Pl.* 1, 520 (1805). *CTW Exc* ed. 2, 103.

Sagina cerastoides Smith, *Trans. Linn. Soc.* 2, 343 (1794), non *Cerastium cerastoides* (L.) Britton (1894).

- Cerastium tetrandrum* Curt., *Fl. Lond.* **2**(6), t. 31 (1798), nom. superfl. illegit. $\equiv$ *Sagina cerastoides* Smith.
C. atrovirens Bab., *Mag. Zool. Bot.* **2**, 317 (1838).
 Cf. P. D. Sell & F. H. Whitehead, *Fl. Eur.* **1**, 145 (1964).
- 141/5 ARENARIA NORVEGICA subsp. ANGLICA Halliday, *Watsonia* **4**, 209 (1960).
 CTW ed. 2, 256. *CTW Exc* ed. 2, 112.
 [*A. gothica* auct., non Fries.]
 Cf. A. O. Chater & G. Halliday, *Fl. Eur.* **1**, 120 (1964).
- 149/1c MONTIA FONTANA subsp. AMPORITANA Sennen, *Bull. Géogr. Bot. Le Mans* **21**, 110 (1911).
 M. fontana var. *intermedia* Beeby, *Ann. Scot. Nat. Hist.* **1909**, 104 (1909).
 M. lusitanica Samp., *Ann. Sci. Acad. Polytechn. Porto* **7**(1), 52 (1912).
 M. fontana subsp. *intermedia* (Beeby) Walters, *Watsonia* **3**, 5 (1953).
 Cf. S. M. Walters, *Fl. Eur.* **1**, 115 (1964).
- 158/2 SUAEDA VERA J. F. Gmel., *Syst. Nat.* **2**, 503 (1791). *CTW Exc* ed. 2, 124.
 Chenopodium fruticosum L., *Sp. Pl.*, 221 (1753), non *Suaeda fruticosa* Forsk. (1791).
 [*Suaeda fruticosa* auct., non Forsk.]
 Cf. P. W. Ball, *Fl. Eur.* **1**, 103 (1964).
- 162/2 $\times$ 1 **TILIA CORDATA* $\times$ *PLATYPHYLLOS* = *T. \times VULGARIS* Hayne, *Getr. Darstell. Besch. Gewächse* **3**, t. 47 (1813) (pro sp.). *CTW Exc* ed. 2, 127.
 [*T. \times europaea* auct., non L.]
 Cf. K. Browicz, *Fl. Eur.* **2**, 248 (1968).
- 195/4 LOTUS SUBBIFLORUS Lag., *Var. Ci. Lit. Art. Madrid* **2**(4), 213 (1805). *CTW Exc* ed. 2, 161.
 [*L. hispidus* Desf., *Tab. Éc. Bot.*, 190 (1804), nom. nud.]
 [*L. hispidus* sensu DC. in Lam. & DC., *Fl. Franç.* ed. 3, **5**, 572 (1815), non Desf. ex DC. (1805).]
 Cf. P. W. Ball, *Feddes Repert.* **79**, 41 (1968), *Fl. Eur.* **2**, 175 (1968).
- 211/11/212 RUBUS ECHINATUS Lindl., *Synops. Brit. Fl.*, 94 (1829).
 R. discerptus P. J. Muell., *Pollichia* **16-17**, 146 (1859).
 Cf. B. A. Miles, *Watsonia* **6**, 295 (1967); Y. Heslop-Harrison, *Fl. Eur.* **2**, 19 (1968).
- 211/11/371 RUBUS CALICULATUS Kalt., *Fl. Aach. Beck.* **2**, 283 (1844).
 R. viridis Kalt., tom. cit., 284 (1844), non *R. viridis* Presl ex Ortm. (1835).
 Cf. Y. Heslop-Harrison, *Fl. Eur.* **2**, 24 (1968).
- 211/11/375 RUBUS GLANDULOSUS Bellardi, *Mém. Acad. Sci. Turin* **5**, 230 (1793).
 R. bellardi Weihe & Nees in Bluff & Fingerh., *Compend. Fl. Germ.* **1**, 688 (1825), nom. superfl. illegit. $\equiv$ *R. glandulosus* Bellardi.
 Cf. Y. Heslop-Harrison, *Fl. Eur.* **2**, 24 (1968).
- 218/2 AGRIMONIA PROCERA Wallr., *Erst. Beitr. Fl. Hercyn.*, 203 (1840). *CTW Exc* ed. 2, 180.
 [*A. odorata* auct., non Mill.]
 Cf. V. Skalický, *Fl. Eur.* **2**, 32 (1968).
- 220/3/1 ALCHEMILLA GLAUDESCENS Wallr., *Linnaea* **14**, 134 (1840). *CTW* ed. 2, 397.
 [*A. minor* auct., non Huds.]
 Cf. M. E. Bradshaw, P. D. Sell & S. M. Walters, *Watsonia* **5**, 260 (1963); S. M. Walters, *Fl. Eur.* **2**, 54 (1968).

- 229/1 CRATAEGUS LAEVIGATA (Poir.) DC., *Prodr.* **2**, 630 (1825). *CTW Exc* ed. 2, 190.
Mespilus laevigata Poir., *Encycl. Méth. Bot.* **4**, 439 (1798).
Crataegus oxyacanthoides Thuill., *Fl. Env. Par.* ed. 2, 245 (1799).
 Cf. J. do Amaral Franco, *Feddes Repert.* **74**, 25 (1967), *Fl. Eur.* **2**, 74 (1968).
- 229/3 *CRATAEGUS LACINIATA Ucria, *Nuov. Racc. Opusc. Aut. Sicil.* **6**, 251 (1793).
C. orientalis Pall. ex Bieb., *Fl. Taur.-cauc.* **1**, 387 (1808).
 Cf. J. do Amaral Franco, *Fl. Eur.* **2**, 77 (1968).
- 246/1 RIBES RUBRUM L., *Sp. Pl.*, 200 (1753). *CTW Exc* ed. 2, 203.
R. vulgare var. *sylvestre* Lam., *Encycl. Méth. Bot.* **3**, 47 (1789).
R. sylvestre (Lam.) Mert. & Koch, *Röhl. Deutsch. Fl.* **2**, 249 (1826).
 Cf. D. A. Webb, *Fl. Eur.* **1**, 383 (1964).
- 254/7 EPILOBIUM TETRAGONUM L., *Sp. Pl.*, 348 (1753) subsp. TETRAGONUM. *CTW*
 ed. 2, 475.
E. adnatum Griseb., *Bot. Zeit.* **10**, 854 (1852).
- 254/8 EPILOBIUM TETRAGONUM subsp. LAMYI (F. W. Schultz) Nyman, *Consp. Fl.*
Eur., 247 (1879). *CTW* ed. 2, 475.
E. lamyi F. W. Schultz, *Flora (Regensb.)* **27**, 806 (1844).
 Cf. P. H. Raven, *Fl. Eur.* **2**, 310 (1968).
- 254/14 *EPILOBIUM PEDUNCULARE Cunn., *Ann. Nat. Hist.* **3**, 31 (1839).
E. linnaeoides Hook. f., *Bot. Antarct. Voy.* **1**(1), 10 (1844).
 Cf. R. Melville, *Kew Bull.* **14**, 296 (1960), **15**, 477 (1962); P. H. Raven, *Fl. Eur.* **2**, 311 (1968).
- 255/1 EPILOBIUM ANGUSTIFOLIUM L., *Sp. Pl.*, 347 (1753).
Chamaenerion angustifolium (L.) Scop., *Fl. Carniol.* ed. 2, **1**, 271 (1772).
 Cf. P. H. Raven, *Bull. Brit. Mus. (Nat. Hist.) Bot.* **2**, 331–332 (1962), *Fl. Eur.* **2**, 309 (1968),
 who retains this species and its allies in *Epilobium*. Even if treated as a separate genus these
 species cannot take the name *Chamaenerion*, which is an illegitimate substitute for *Epilobium*.
Chamaenerion was the original name used by Tournefort for *Epilobium (sensu lato)* and
 was adopted in the same sense by Séguier, Scopoli and some other authors after 1753;
 cf. J. E. Dandy, *Reg. Veg.* **51**, 18, 39 (1967).
- 265 SWIDA Opiz, *Oek.-techn. Fl. Böhm.* **2**, 174 (1838) ('Swjda').
Cornus sect. *Thelycrania* Dumort., *Florula Belg.*, 83 (1827).
 [Swjda Opiz, *Oek. Neuigk. Verh.* **1835**, 624 (1835), nom. nud.]
Thelycrania (Dumort.) Fourr., *Ann. Soc. Linn. Lyon Nouv. Sér.* **16**, 394
 (1868).
 Cf. Z. Pouzar, *Preslia* **36**, 341 (1964).
- 265/1 SWIDA SANGUINEA (L.) Opiz, *Oek.-techn. Fl. Böhm.* **2**, 174 (1838).
Cornus sanguinea L., *Sp. Pl.*, 117 (1753).
Thelycrania sanguinea (L.) Fourr., *Ann. Soc. Linn. Lyon Nouv. Sér.* **16**,
 394 (1868).
- 265/2 *SWIDA SERICEA (L.) Holub, *Fol. Geobot. Phytotax. (Praha)* **2**, 427 (1967).
Cornus sericea L., *Mant. Pl. Alt.*, 199 (1771).
C. stolonifera Michaux, *Fl. Bor.-amer.* **1**, 92 (1803).
Thelycrania sericea (L.) Dandy, *Watsonia* **4**, 47 (1957).
- 319/3 †EUPHORBIA VILLOSA Waldst. & Kit. ex Willd., *Sp. Pl.* **2**, 909 (1800). *CTW*
Exc ed. 2, 244.
 [*E. pilosa* auct., non L.]
 Cf. A. R. Smith & T. G. Tutin, *Fl. Eur.* **2**, 217 (1968).

- 319/8 EUPHORBIA SERRULATA Thuill., *Fl. Env. Par.* ed. 2, 237 (1799). *CTW Exc* ed. 2, 245.

E. verrucosa L., *Sp. Pl.*, 459 (1753), nom. ambig. rejic.

E. stricta L., *Syst. Nat.* ed. 10, 2, 1049 (1759), nom. superfl. illegit. ≡

E. verrucosa L.

Cf. A. R. Smith & T. G. Tutin, *Fl. Eur.* 2, 219, 220 (1968). The earliest name for this species is *E. verrucosa* L. (1753), which Linnaeus unnecessarily changed to *E. stricta* in 1759: the species was numbered '42' with the same definition in both his 1753 and 1759 works. *E. verrucosa* L., *Syst. Nat.* ed. 10, 2, 1049 (1759), was published as a new species (numbered 'D') which is a different entity from *E. verrucosa* L. (1753) and is referable to *E. brittingeri* Opiz ex Samp. As the name *E. verrucosa* has been in general use for the latter species it is to be rejected as ambiguous.

- 320/1/4(5,6) POLYGONUM ARENASTRUM Bor., *Fl. C. France* ed. 3, 2, 559 (1857). *CTW* ed. 2, 545. *CTW Exc* ed. 2, 250.

P. microspermum Jord. ex Bor., tom. cit., 560 (1857).

P. calcatum Lindm., *Bot. Notis.* 1904, 139 (1904).

P. aequale Lindm., *Svensk Bot. Tidskr.* 6, 692 (1912).

Cf. B. T. Styles, *Watsonia* 5, 204 (1962); D. A. Webb & A. O. Chater, *Fl. Eur.* 1, 79 (1964).

- 320/18 *POLYGONUM AUBERTII L. Henry, *Rev. Hort.* 79, 82 (1907).

Bilderdykia aubertii (L. Henry) Moldenke, *Rev. Sudamer. Bot.* 6, 29 (1939).

[*Polygonum baldschuanicum* auct., non Regel.]

Cf. D. A. Webb, *Fl. Eur.* 1, 81 (1964) (as *Bilderdykia aubertii*). Webb segregates the genus *Bilderdykia* Dumort., *Florula Belg.*, 18 (1827); but if this were accepted its correct name would apparently be *Fallopia* Adans., *Fam. Pl.* 2, 277, 557 (1763).

- 326/1 PARIETARIA JUDAICA L., *Fl. Palaest.*, 32 (1756). *CTW Exc* ed. 2, 257.

P. diffusa Mert. & Koch, *Röhl. Deutsch. Fl.* 1, 827 (1823).

Cf. C. C. Townsend, *Watsonia* 6, 368 (1968).

- 327 *SOLEIROLIA Gaudich. in Freycinet, *Voy. Monde*, Bot., 504 (1830).

Helxine Req., *Ann. Sci. Nat.* 5, 384 (1825), non *Helxine* L. (1758).

- 327/1 *SOLEIROLIA SOLEIROLII (Req.) Dandy, *Feddes Repert.* 70, 4 (1965). *CTW Exc* ed. 2, 256.

Helxine soleirolii Req., *Ann. Sci. Nat.* 5, 384 (1825).

[*Soleirolia soleirolii* (Req.) Dandy ex P. W. Ball, *Fl. Eur.* 1, 69 (1964), comb. invalid., basion. non rite cit.]

- 343/12b SALIX CINEREA subsp. OLEIFOLIA Macreight, *Man. Brit. Bot.*, 212 (1837).

S. acuminata Mill., *Gard. Dict.* ed. 8, n. 14 (1768).

S. atrocinerea Brot., *Fl. Lusit.* 1, 31 (1804).

S. oleifolia Smith, *Fl. Brit.* 3, 1065 (1804), non *S. oleifolia* Vill. (1789).

S. cinerea subsp. *atrocinerea* (Brot.) Silva & Sobrinho, *Agron. Lusit.* 12, 248 (1950).

- 357/2 × 1 ERICA MACKAIANA × TETRALIX = E. × PRAEGERI Ostenf., *New Phytol.* 11, 120 (1912).

[*E. × stuartii* auct., ?an E. F. Linton.]

Cf. D. A. Webb, *Watsonia* 6, 296 (1967).

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- 357/7 **Erica erigena** R. Ross, **nom. nov.**
E. mediterranea var. *hibernica* Hook. & Arn., *Brit. Fl.* ed. 7, 266 (1855).
E. hibernica (Hook. & Arn.) Syme in Sowerby, *Engl. Bot.* ed. 3, 6, 42 (1866), non *E. hibernica* Utnet (1839).
 [*E. mediterranea* auct., non L.]
 Cf. R. Ross, *J. Linn. Soc. (Bot.)* **60**, 71 (1967) (as *E. hibernica*): this paper on some Linnaean species of *Erica* was on the point of appearing when my attention was drawn by Mr. D. McClintock to the existence of the name *E. hibernica* Utnet, *Ann. Fl. Pomone* **1839-40**, 94 (1839), which is validly published and thus makes *E. hibernica* (Hook. & Arn.) Syme an illegitimate later homonym. Utnet's name, which is not so far listed in *Index Kewensis*, was based on a cultivated South African winter-flowering heath, and its epithet indicates its time of flowering, not its place of origin. Hooker & Arnott's epithet *hibernica*, referring to the Irish origin of their plant, is now replaced by *erigena*, which has the same significance. [Contributed by R. Ross.]
- 379/3 ***VINCA MAJOR** subsp. **HIRSUTA** (Boiss.) Stearn, *J. Bot., Lond.* **70**, Suppl., 27 (1932).
V. major var. *hirsuta* Boiss. in Tchihatcheff, *As. Mineure* **3(2)**, 67 (1866).
 [*V. herbacea* auct., non Walldst. & Kit.]
 Cf. W. T. Stearn, *Proc. Bot. Soc. Brit. Is.* **5**, 341 (1964).
- 400/3 **MYOSOTIS STOLONIFERA** (DC.) Gay ex Leresche & Levier, *Deux Excurs. Bot.*, 83 (1880). *CTW Exc* ed. 2, 307.
 [*M. stolonifera* Gay, *Ann. Sci. Nat. Sér. 2 (Bot.)* **6**, 351 (1836), *nom. nud.*]
M. caespitosa var. *stolonifera* DC., *Prodr.* **10**, 106 (1846).
M. lingulata var. *stolonifera* (DC.) Willk. in Willk. & Lange, *Prodr. Fl. Hisp.* **2**, 503 (1870).
M. brevifolia C. E. Salmon, *J. Bot., Lond.* **64**, 294 (1926).
 Cf. D. Welch, *Watsonia* **6**, 276-279 (1967).
- 406/2 ***CALYSTEGIA PULCHRA** Brummitt & Heywood, *Proc. Bot. Soc. Brit. Is.* **3**, 385 (1960).
 [*C. sepium* subsp. *dahurica* Webb & Walters in Clapham, Tutin & Warb., *Excurs. Fl. Brit. Is.*, 302 (1959), comb. invalid., basion. non cit., pro parte, non *Convolvulus dahuricus* Herbert.]
 [*C. sepium* subsp. *pulchra* (Brummitt & Heywood) Tutin in Clapham, Tutin & Warb., *Fl. Brit. Is.* ed. 2, 666 (1962), comb. invalid., basion. non cit.]
Convolvulus dubius J. L. Gilbert, *J. Northampt. Nat. Hist. Soc. Field Club* **34**, 149 (1963).
 [*Calystegia dahurica* auct., non (Herbert) G. Don.]
- 409/1 ***LYCIUM BARBARUM** L., *Sp. Pl.*, 192 (1753). *CTW Exc* ed. 2, 313.
L. halimifolium Mill., *Gard. Dict.* ed. 8, n. 6 (1768).
 Cf. N. Feinbrun & W. T. Stearn, *Israel J. Bot.* **12**, 120 (1963).
- 424/2 **SCROPHULARIA AURICULATA** L., *Sp. Pl.*, 620 (1753). *CTW Exc* ed. 2, 321.
 [*S. aquatica* auct., non L.]
 Cf. A. Vaarama & H. Hiirsalmi, *Hereditas* **58**, 335 (1967). This species has usually been known as *S. aquatica*, but the original definition of *S. aquatica* L. (loc. cit.) refers to *S. umbrosa* Dumort., as also does the specimen in the Linnaean Herbarium (773/3, named '3 aquatica') which is to be taken as lectotype. Owing to its misapplication the name *S. aquatica* has become a long-persistent source of error and is to be rejected as an ambiguous name, leaving the correctness of the name *S. umbrosa* unaffected.

Linnaeus's definition of *S. auriculata* refers to the species which has commonly been called *S. aquatica*; it is represented in the Linnaean Herbarium by a specimen (773/4, named 'auriculata') which is to be taken as lectotype.

- 426/2 LIMOSELLA AUSTRALIS R.Br., *Prodr. Fl. Nov. Holl.*, 443 (1810).
L. subulata Ives, *Trans. Phys.-med. Soc. New-York* **1**, 441 (1817).
 Cf. A. Lourteig, *C.N.F.R.A. Biol.* **1**, 166 (1964).
- 435/1/12 EUPHRASIA TETRAQUETRA (Bréb.) Arrond., *Bull. Soc. Polymath. Morbihan* **1862**, 96 (1863).
E. officinalis subvar. *tetraquetra* Bréb., *Fl. Normand.* ed. 2, 183 (1849).
E. occidentalis Wettst., *Monogr. Gatt. Euphrasia*, 135 (1896).
 Cf. P. D. Sell & P. F. Yeo, *Watsonia* **6**, 301 (1967).
- 461 LAMIASTRUM Heist. ex Fabr., *Enum. Meth. Pl.*, 51 (1759).
Galeobdolon Adans., *Fam. Pl.* **2**, 190, 560 (1763), nom. superfl. illegit.
 ≡ *Lamiastrum* Heist. ex Fabr.
- 461/1 LAMIASTRUM GALEOBDOLON (L.) Ehrend. & Polatsch., *Österr. Bot. Zeitschr.* **113**, 108 (1966). *CTW Exc* ed. 2, 349.
Galeopsis galeobdolon L., *Sp. Pl.*, 580 (1753).
Galeobdolon luteum Huds., *Fl. Angl.* ed. 2, 258 (1778).
- 484/1 CRUCIATA LAEVIPIES Opiz, *Seznam Rostl. Kvet. Ceské*, 34 (1852).
Valantia cruciata L., *Sp. Pl.*, 1052 (1753).
Galium cruciata (L.) Scop., *Fl. Carniol.* ed. 2, **1**, 100 (1772).
Aparine latifolia Moench, *Meth. Pl.*, 640 (1794), nom. superfl. illegit.
 ≡ *Valantia cruciata* L.
Galium valantia Gaertn., Meyer & Scherb., *Oek.-techn. Fl. Wetter.* **1**, 188 (1799), non *G. valantia* Weber (1780).
Valantia ciliata Opiz ex J. & C. Presl, *Fl. Čech.*, 34 (1819), non *V. ciliata* Banks & Soland. (1794).
 [Cruciata chersonensis Ehrend., *Not. R. Bot. Gard. Edin.* **22**, 396 (1958) pro parte, non *Valantia chersonensis* Willd.]
 Cf. F. Ehrendorfer, *Ann. naturhist. Mus. Wien* **65**, 16 (1962).
- 514/1 FILAGO VULGARIS Lam., *Fl. Franç.* **2**, 61 (1778). *CTW Exc* ed. 2, 393.
 [Gnaphalium germanicum L., *Sp. Pl.*, 857, 1230 (1753), nom. syn.]
Filago germanica L., op. cit. ed. 2, 1311 (1763), non *F. germanica* Huds. (1762).

Cf. G. Wagenitz, *Willdenowia* **4**, 51 (1965).

Nomenclatural complications in *Filago* have been discussed by a number of authors in recent years. J. Holub & J. Chrtek, *Taxon* **11**, 195–201 (1962), pointed out that the generic name *Filago* L. should be typified by *F. pygmaea* L., which is also the type species of *Evax* Gaertn. (1791). These authors considered, but rejected, the idea of conserving the name *Filago* in its present sense; instead, they replaced *Evax* Gaertn. by *Filago* L., and adopted the name *Gifola* Cass. (1819) for the genus currently known as *Filago*. Later, however, the name *Filago* L. was proposed for conservation in its present sense (i.e. with *F. pyramidata* L. as type) by G. Buchheim & G. Wagenitz, *Reg. Veg.* **34**, 61–62 (1964), and so may continue in use pending an official decision on the proposal.

As to the species, there has been especial confusion in the nomenclature of *F. vulgaris* and *F. pyramidata* (see 514/3 below), springing from emendations made by Linnaeus on the penultimate page of his *Species plantarum* (1753). In his text he had treated *Gnaphalium germanicum* (i.e. *F. vulgaris*) and *F. pyramidata* as separate species in different genera, but in the Addenda he united the two under the name *F. pyramidata* as the third species of *Filago*, so that the name *Gnaphalium germanicum* (1753) was published only as a synonym.

In the second edition of the *Species plantarum* (1763) Linnaeus separated the two species under the names *F. pyramidata* and *F. germanica*, but by now the latter name was invalidated by *F. germanica* Huds. (1762). Wagenitz (1965) has admirably elucidated the complications involved, and has shown that the correct name for *F. germanica* L. (non Huds.) is *F. vulgaris* Lam.

W. Greuter, *Boissiera* 13, 136 (1967), *pace* Wagenitz, has continued to use the name *F. germanica* on the ground that *Gnaphalium germanicum* and *Filago pyramidata* of the *Species plantarum* (1753) are to be treated as alternative names within the meaning of the International Code, so that *G. germanicum* is validly published from 1753. This argument has no real foundation: Linnaeus did not publish the names as alternatives. It is clear that he changed his mind during the production of the volume and that the opinion which he gave in his Addenda was his final and decisive view at that time; this is confirmed by his treatment in the second edition of *Flora Suecica*, published two years later (1755), where on p. 302 the Swedish plant (*i.e.* *F. vulgaris*) was referred to *F. pyramidata* with *G. germanicum* included ('*Spec. plant.* 1199. & 857, n. 35').

- 514/2 *FILAGO LUTESCENS* Jord., *Obs. Pl. Nouv.* 3, 201 (1846). *CTW Exc* ed. 2, 393.
 [*F. apiculata* G. E. Smith, *The Phytologist* 2, 575 (1846), nom. provis.]
 F. apiculata G. E. Smith ex Bab., *Man. Brit. Bot.* ed. 3, 174 (1851), nom.
 superfl. illegit. $\equiv$ *F. lutescens* Jord.
Cf. G. Wagenitz, *Willdenowia* 4, 51 (1965).

- 514/3 *FILAGO PYRAMIDATA* L., *Sp. Pl.*, 1199, 1230 (1753). *CTW Exc* ed. 2, 393.
 F. spathulata C. Presl in J. & C. Presl, *Delic. Prag.*, 99 (1822).
Cf. G. Wagenitz, *Willdenowia* 4, 52 (1965).

- 533A *LEUCANTHEMUM* Mill., *Gard. Dict. Abridg.* ed. 4, 2 (1754).
Cf. V. H. Heywood, *Proc. Bot. Soc. Brit. Is.* 3, 177-179 (1959), who recognizes *Leucanthemum* and *Tanacetum* as genera distinct from *Chrysanthemum* and gives cogent reasons for doing so. His treatment will be followed in *Flora Europaea* and is accepted here; for otherwise it will be necessary to find another name in *Chrysanthemum* for *C. (Tanacetum) vulgare* (see below), and in the circumstances there seems to be no point in doing this.

- 533/2 *LEUCANTHEMUM VULGARE* Lam., *Fl. Franç.* 2, 137 (1778).
 Chrysanthemum leucanthemum L., *Sp. Pl.*, 888 (1753).

- 533/3 **LEUCANTHEMUM MAXIMUM* (Ramond) DC., *Prodr.* 6, 46 (1838).
 Chrysanthemum maximum Ramond, *Bull. Sci. Soc. Philom. Paris* 2, 140
 (1800).

- 533B *TANACETUM* L., *Sp. Pl.*, 843 (1753); *Gen. Pl.* ed. 5, 366 (1754).

- 533/4 *TANACETUM PARTHENIUM* (L.) Schultz Bip., *Ueber Tanacet.*, 55 (1844).
 Matricaria parthenium L., *Sp. Pl.*, 890 (1753).
 Chrysanthemum parthenium (L.) Bernh., *Syst. Verz. Pfl. Erfurt*, 145 (1800).

- 533/5 *TANACETUM VULGARE* L., *Sp. Pl.*, 844 (1753).
 T. officinarum Crantz, *Inst. Rei Herb.* 1, 273 (1766), nom. superfl. illegit.
 $\equiv$ *T. vulgare* L. (*T. foliis bipinnatis incisiss serratis* L.).
 Chrysanthemum vulgare (L.) Bernh., *Syst. Verz. Pfl. Erfurt*, 144 (1800),
 non *C. vulgare* (Lam.) Gaterau (1789).
 C. tanacetum Karsch, *Phan.-Fl. Prov. Westfalen*, 294 (1853), non *C.*
 tanacetum Vis. (1847).

Cf. J. Raynal, *Taxon* 17, 516 (1968). If retained in *Chrysanthemum* this species would require a new combination; for both the existing combinations in *Chrysanthemum* are later homonyms, and the name *Tanacetum officinarum* Crantz, despite Raynal's statement, is a superfluous substitute for *T. vulgare* L., Linnaeus's full phrase-name (*nomen specificum legitimum*) being cited by Crantz as a synonym. The oldest legitimate specific name after *T. vulgare* appears to be *T. crispum* (L.) Kerner, *Abbild. Oek. Pfl.* 3, 126 (1789), based on *T. vulgare* var. *crispum* L., *Sp. Pl.*, 845 (1753).

- 540/6 *CIRSIUM ACAULE* Scop., *Ann. Hist.-nat.* 2, 62 (1769). *CTW Exc* ed. 2, 412.
 Carduus acaulos L., *Sp. Pl.*, 1199 (1753).
 Cirsium acaulon (L.) Scop., *Fl. Carniol.* ed. 2, 2, 131 (1772) ('*Acaulos*'), non
 C. acaule Scop. (1769).

Cirsium acaule Scop. (1769) was described from the neighbourhood of Cavalese, in the Italian Tyrol, apparently as a new species, there being no reference, direct or indirect, to the earlier *Carduus acaulos* L. Subsequently Scopoli, dealing with the flora of Carniola, transferred *Carduus acaulos* to *Cirsium* as *C. acaulon* (L.) Scop. without any mention of his earlier *C. acaule*. The two entities are now placed in the same species, for which the correct name under *Cirsium* is *C. acaule* Scop. The existence of this name prevents the acceptance of Linnaeus's epithet *acaulos* in the genus *Cirsium*.

- 558/1/11 *HIERACIUM TENUIFRONS* Sell & West, *Watsonia* 6, 303 (1967).
 [*H. gracilentum* Backh., *The Phytologist* 4, 806 (1853) pro parte, non
 H. alpinum var. *gracilentum* Fries.]

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 78 (1968).

- 558/1/22 *HIERACIUM SINUANS* F. J. Hanb., *J. Bot., Lond.* 30, 167 (1892).
 [*H. pulmonarium* Smith in Sowerby, *Engl. Bot.* 33, t. 2307 (1811), nom.
 superfl. illegit., pro parte, non *H. pulmonarioides* Vill.]

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 82 (1968).

- 558/1/80 *HIERACIUM DECOLOR* (W. R. Linton) A. Ley, *J. Bot., Lond.* 47, 10 (1909).
 H. silvaticum var. *subcyaneum* W. R. Linton, *Acc. Brit. Hierac.*, 39 (1905).
 H. caesium var. *decolor* W. R. Linton, op. cit., 59 (1905).
 H. subcyaneum (W. R. Linton) Pugsl., *J. Bot., Lond.* 79, 182 (1942).

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 96 (1968). The name *H. decolor* was misapplied by Pugsley to the species now called *H. pseudoleyi* (see 558/1/140 below).

- 558/1/103 *HIERACIUM STENSTROEMII* (Dahlst.) Johanss., *Bih. Svenska Vet.-akad. Handl.*
 28(3, 7), 27 (1902).
 H. serratifrons subsp. *stenstroemii* Dahlst., *Svenska Vet.-akad. Handl.*
 Ny Följd 25(3), 86 (1893).
 H. exotericum var. *glevense* Pugsl., *J. Linn. Soc. (Bot.)* 54, 144 (1948).
 H. glevense (Pugsl.) Sell & West, *Watsonia* 3, 234 (1955).

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 105 (1968).

- 558/1/116 *HIERACIUM PILIGERUM* (Pugsl.) Sell & West, *Watsonia* 6, 310 (1967).
 H. variicolor var. *piligerum* Pugsl., *J. Linn. Soc. (Bot.)* 54, 156 (1948).

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 107 (1968).

- 558/1/140 *HIERACIUM PSEUDOLEYI* (Zahn) Roffey, *Lond. Cat. Brit. Pl.* ed. 11, 26 (1925).
 H. saxifragum subsp. *pseudoleyi* Zahn in Engler, *Pflanzenr.* IV.280 (Heft
 75), 251 (1921) ('*pseudo-Leyi*').

[*H. decolor* sensu Pugsl., *J. Linn. Soc. (Bot.)* 54, 184 (1948).]

Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 96 (1968).

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- 558/1/153 HIERACIUM POLLICHIAE Schultz Bip., *Pollichia* **13**, 23 (1855).
 [*H. pollichiae* Schultz Bip. ex G. F. Koch, *Oesterr. Bot. Wochenbl.* **3**, 247 (1853), nom. nud.]
H. roffeyanum Pugsl., *J. Bot., Lond.* **79**, 197 (1942).
 Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 116 (1968).
- 558/1/179 HIERACIUM CARPATHICUM Bess., *Primit. Fl. Galic.* **2**, 154 (1809).
H. perthense F. N. Williams, *Prodr. Fl. Brit.* **1**, 163 (1902).
 Cf. P. D. Sell & C. West, *Watsonia* **6**, 103 (1965).
- 558/1/194 HIERACIUM SPARSIFRONS Sell & West, *Watsonia* **6**, 312 (1967).
H. sparsifolium var. *oligodon* E. F. Linton in W. R. Linton, *Acc. Brit. Hierac.*, 78 (1905).
H. oligodon (E. F. Linton) Pugsl., *J. Ecol.* **33**, 346 (1946), non *H. oligodon* Naeg. & Peter (1886).
- 558/1/212 HIERACIUM SUBUMBELLATIFORME (Zahn) Roffey, *Lond. Cat. Brit. Pl.* ed. 11, 29 (1925).
H. aestivum subsp. *subumbellatiforme* Zahn in Engler, *Pflanzenr.* **IV.280** (Heft 79), 919 (1922).
H. pseudamplidentatum Pugsl., *J. Linn. Soc. (Bot.)* **54**, 284 (1948).
 Cf. P. D. Sell & C. West in F. H. Perring, *Crit. Suppl. Atl. Brit. Fl.*, 128 (1968).
- 570/2 *ELODEA ERNSTIAE St. John, *Darwiniana* **12**, 644 (1963) ('*Ernstae*').
 [*E. callitrichoides* auct., non (Rich.) Casp.]
 Cf. D. H. Kent, *Proc. Bot. Soc. Brit. Is.* **5**, 232 (1964).
- 577/13 × 16 POTAMOGETON PUSILLUS × TRICHOIDES = P. × GROVESII Dandy & Taylor, *Watsonia* **6**, 316 (1967).
 [*P. × trinervius* auct., non G. Fisch.]
- 579/1 RUPPIA CIRRHOSA (Petagna) Grande, *Bull. Orto Bot. Univ. Napoli* **5**, 58 (1918).
Buccaferrea cirrhosa Petagna, *Inst. Bot.* **5**, 1826 (1787).
Ruppia spiralis L. ex Dumort., *Florula Belg.*, 164 (1827).
 Cf. J. C. Gamero, *Darwiniana* **14**, 578 (1968).
- 582/1 ERIOCAULON AQUATICUM (Hill) Druce, *Pharm. J.* **83**, 700 (1909). *CTW Exc* ed. 2, xxiv.
Cespa aquatica Hill, *Herb. Brit.* **1**, 96* (1769).
Eriocaulon septangulare With., *Bot. Arrang. Veg.* **2**, 784 (1776).

In 1909 G. C. Druce drew attention to the existence in his copy of Hill's *Herbarium Britannicum* (vol. 1; 1769) of an additional plate 66 illustrating, with dissections, a genus *Cespa* with the single species *C. aquatica* ('Water Turffwort'). The species depicted was *Eriocaulon septangulare*, described under that name by Withering in 1776, and so Druce on grounds of priority published the new combination *E. aquaticum* (Hill) Druce. For some reason Druce in his later works did not persist in the use of the name *E. aquaticum*; thus in his *British plant list* ed. 2, 118 (1928), he retained the name *E. septangulare* (with *E. aquaticum* cited as a synonym), and in his *Comital Flora*, 320 (1932), he used the name *E. septangulare* without mention of *E. aquaticum*. Possibly he now thought his combination *E. aquaticum* to be invalidated by *E. aquaticum* Sagot ['Mss. in Herb. Sagot.'] ex Koern. in Mart., *Fl. Brasil.* **3**(1), 489 (1863); but this name was published only as a synonym of *E. melanocephalum* Kunth and so cannot invalidate *E. aquaticum* (Hill) Druce.

The additional plate 66 present in Druce's copy of the *Herbarium Britannicum* does not appear in all copies of the work; but at the British Museum, Bloomsbury, and at the Linnean Society of London there are copies which contain not only this additional plate

but also four additional pages of text (numbered 96*-99*) in which *Cespa aquatica* is described at length. These extra pages and plate (reproduced here as Figs. 1-5 (pp. 170-174) were presumably not issued soon enough for inclusion in all copies of the *Herbarium Britannicum*. According to Hill's statement on p. 96* the plant concerned had been collected in the previous year ('mense Septemb. anni elapsi') on the island of Skye by James Robertson, and had been communicated to Hill, with an illustration and description, by John Hope of Edinburgh. Hope himself published an account of it in *Phil. Trans. Lond.* **59**, 241-246, t. 12 (1770), in which he stated that it had been found by Robertson in September 1768. Thus Hill's 'anni elapsi' was 1768, so that his additional pages and plate were issued, or at least printed, in 1769. Hill in any case died in 1775, before Withering's publication of *E. septangulare* in 1776.

Hope correctly placed the plant in *Eriocaulon*, but misidentified it with *E. decangulare* L., a species confined to North America. Hill, on the other hand, treated it as forming a new genus, *Cespa*, which, according to his footnote on p. 98*, he considered to differ from *Eriocaulon* in having the corolla 'dipetala', *Eriocaulon* being 'tripetalum'. Hope mentioned the plant's vegetative resemblance to '*Calamaria* Dill. *Musc. Tab.* 80' (*Isoetes* L.) in which, however, a flowering stem was unknown; Hill's footnote on p. 96* makes the same point.

605/10 JUNCUS SUBULIFLORUS Drejer, *Fl. Excurs. Hafn.*, 127 (1838). CTW Exc ed. 2, 463.

J. leersii Marsson, *Fl. Neu-Vorpommern*, 451 (1869).

[*J. conglomeratus* auct., non L.]

The definition of *J. conglomeratus* L., *Sp. Pl.*, 326 (1753), is taken unchanged from Royen, *Fl. Leyd. Prodr.*, 44 (1740), with a secondary reference to Linnaeus's *Flora Suecica*, 99, n. 278 (1745). Royen's plant, which is preserved at Leiden and is the obligate lectotype, has been examined and found to be the conglomerate form of *J. effusus* L., as also is the specimen in the Linnaean Herbarium (449/2) named by Linnaeus '2 conglomeratus' and marked 'Fl. suec.' Thus the name *J. conglomeratus* L. belongs to the synonymy of *J. effusus* L., and the species which has commonly been known as *J. conglomeratus* must take another name. The earliest name available is apparently *J. subuliflorus*.

614/7 *NARCISSUS POETICUS × TAZETTA = N. × MEDIOLUTEUS Mill., *Gard. Dict.* ed. 8, n. 4 (1768) ('Medio-luteus') (pro sp.).

N. biflorus Curt., *Bot. Mag.* **6**, sub t. 193 (1792) (pro sp.).

Cf. A. Fernandes, *R. Hort. Soc. Daff. Tulip Year Book* **1968**, 48 (1968), who gives the parentage of this hybrid as *N. poeticus* L. × *N. tazetta* L.

637 PSEUDORCHIS Séguier, *Pl. Veron.* **3**, 254 (1754).

Leucorchis E. Meyer, *Preuss. Pflanzengatt.*, 50 (1839).

Cf. J. E. Dandy, *Reg. Veg.* **51**, 18, 75 (1967).

637/1 PSEUDORCHIS ALBIDA (L.) Á. & D. Löve, *Taxon* **18**, 312 (1969).

Satyrium albidum L., *Sp. Pl.*, 944 (1753).

Orchis albida (L.) Scop., *Fl. Carniol.* ed. 2, **2**, 201 (1772).

Habenaria albida (L.) R.Br. in Aiton, *Hort. Kew.* ed. 2, **5**, 193 (1813).

Gymnadenia albida (L.) Rich., *Orch. Eur. Annot.*, 35 (1817); reimpr. in *Mém. Mus. Hist. Nat. Paris* **4**, 57 (1818).

Entaticus albidus (L.) Gray, *Nat. Arrang. Brit. Pl.* **2**, 205 (1821).

Platanthera albida (L.) Lindl., *Synops. Brit. Fl.*, 261 (1829).

Peristylus albidus (L.) Lindl., op. cit. ed. 2, 261 (1835).

Leucorchis albida (L.) E. Meyer in Patze, Meyer & Elkan, *Fl. Prov. Preuss.*, 91 (1848).

Bicchia albida (L.) Parl., *Fl. Ital.* **3**, 397 (1860).

All the synonyms cited above, in addition to the basionym, have been applied at one time or another to the British plant.

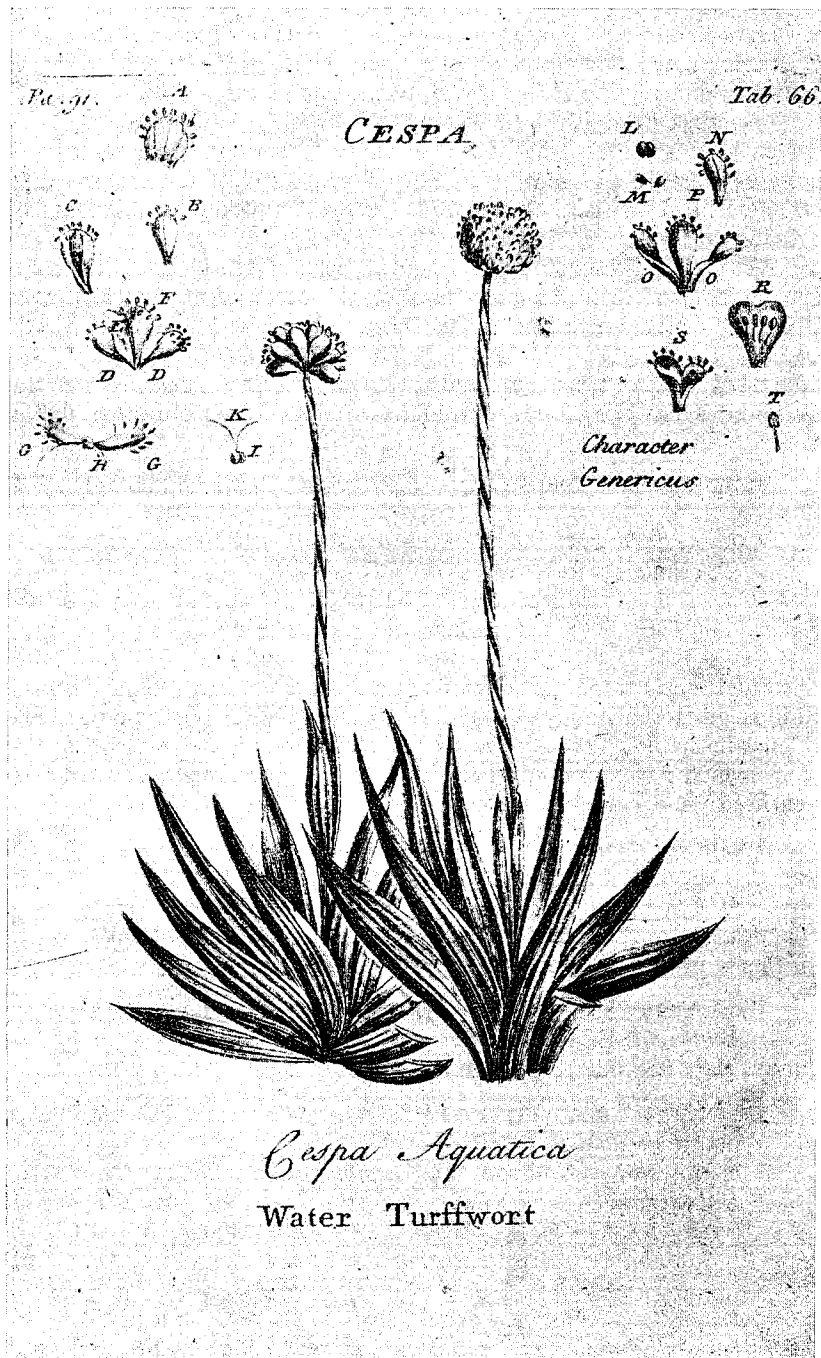


Fig. 1. Hill, *Herbarium Britannicum*, vol. 1, additional plate 66.

A G G R E G A T Æ. 96*

AGGREGATIS ADDITAMENTUM.

O R D O Q U I N T U S.

Calyce proprio diphyлло.

G E N U S I.

C E S P A *.

T U R F W O R T.

Plate 66.

Caput rotundatum : flores masculi et feminei
aggregati.

I. C E S P A A Q U A T I C A.

W A T E R T U R F W O R T.

Caulis contortus ; folia subtus convexa.

Tab. 66.

CAULIS triuncialis, contortus.

FOLIA disssepimentis divisa.

FLORES albi.

PERENNIS. Sub aquis. Rarior. Septembri florens.

Planta hæc rara & singularis mense Septemb.
anni elapsi, in lacu parvo insulæ Skye dictæ ad Sco-
tiæ parten occidentalem a Jacobo Robertson, Bot.
studio inventa fuit, et a Domino Jo. Hope, Bot.
Prof. Edinburg. nobilissimo Johanni Comiti de
BUTE, cum icone et descriptione missa, ad charac-
teras Eriocauli, adhuc obscuras, elucidandas.

* Calamaria Dillenii, Isoetes Linnæi, fructificatione ignota,

[G]

Plurimæ

Fig. 2. Hill, *Herbarium Britannicum*, vol. 1, page 96*.

*97 A G G R E G A T Æ.

Plurimæ crescunt simul: sub aqua, præter capitulum & scapi summam penitus demersæ, radicibus ita intertextis ut fundum lacus lutosum tegant, & quibusdam in locis lacus superficies ejusdem plantæ matta vi aquæ suspensa obtegatur: facile tamen hæ plantæ separantur.

Radix: Perennis, solida, interne alba, ex cujus parte inferiore oriuntur plurimæ radiculæ teretes simplicissimæ pennæ passerinæ crassitudinis, albæ, fere pellucidæ, per totam longitudinem dissepimentis opacis transversis, sive articulationibus interceptæ: in centro harum per totam longitudinem est linea quædam opaca. Extremitates describere non audeo, quia in singulis speciminibus mihi oblatis omnes radiculæ ruptæ fuerunt. Sapor radicularum primo insipidus, levi postea cum acrimoniâ.

Folia radicalia: Ex parte superiore radice oriuntur plurima folia radicalia, suberecta, similia quoad figuram externam, & simili modo disposita ac in *Agave Americanâ*; sesquiunciam longa, latâ basi, margine integerrimâ: sensim attenuantur in apicem acutum, pagina inferiore convexa, superiore concava, nervosa & spâcia his nervis longitudinalibus definita iterum dividuntur dissepimentis transversis, singulis singulis propriis.

Truncus: scapus erectus; e centro foliorum oritur, vagina tenui membranacea, apice bifido, duas uncias longa, respectu nervorum & dissepimentorum foliis simili, inclusus; teres, supra vaginam nudus, contortus.

Fructificatio androgyna terminalis imbricata in capitulo globoso.

Calyx communis, squamis plurimis, nigris, subrotundis,

Fig. 3. Hill, *Herbarium Britannicum*, vol. 1, page 97*.

A G G R E G A T Æ. 98*

tundis, concavis, membranaceis, parte inferiore ciliatis.

Duæ sunt series florum fœmineorum in radio.

FLOS FŒMINEUS in radio.

Squama ovata, nigra, superne ciliata, sensim definens in unguem brevem, externe adstat singulis flosculis.

Cal. prop. Perianthium diphyllum, foliolis ovatis, concavis, nigris, superne ciliatis, in unguem angustum sensim desinentibus. Not. ciliæ squamarum sunt albæ.

Corolla dipetala *, petalis albis oblongis, concavis, sensim desinentibus in ungues angustos, apice & dorso ciliatis, macula nigra in medio fere laminæ notatis.

Pistillum germen compresso-subrotundum. Stylus brevis. Stygmata duo, longa, filiformia.

Pericarpium capsula compresso-subrotunda, nigra, bilocularis.

Semen in singulis loculis unicum læve, dissepimento affixum, citrini coloris ad apicem umbilicatum.

FLORES MASCULI in disco plures.

Squama adstat flosculis ut in fœmineo flore.

Calyx perianthium diphyllum, foliolis cuneiformibus, concavis, ciliatis.

Corolla monopetala, infundibuliformis, ore bilabiato fimbriato.

Stamina filamenta (quatuor? †) filiformia, corollæ longitudine vel longiora. Antheræ nigræ, oblongæ.

* Eriocaulon tripetalum.

† Staminum numerum definire vix audeo.

EXPLI-

Fig. 4. Hill, *Herbarium Britannicum*, vol. 1, page 98*.

*99

A G G R E G A T Æ.

EXPLICATIO TABULARUM.

PARTES FRUCTIFICATIONIS.

Flos Fœmineus.	{	A	Squama calycis communis.
		B	Squama quæ singulis flosculis fœmineis adstat.
		C	Foliola duo perianthii proprii flosculum fœmineum tegentia.
		D D	Eadem foliola perianthii proprii e situ naturali remota.
		E	Pars germinis.
		F	Petala.
		G G	Eadem petala e situ naturali remota.
		H	Pericarpium.
		I	Stylus.
		K	Stigmata.
		L	Pericarpium transverse sectum.
Flos Masculus.	{	M	Semina duo.
		N	Squama quæ singulis flosculis masculis adstat.
		O	Foliola duo perianthii proprii.
		P	Petalum.
		R	Petalum apertum ut insertio staminum appareat.
		S	Petalum staminibus remotis.
		T	Stamen.

O R D O S E X T U S.

Calyce polyphyllo.

HER-

Fig. 5. Hill, *Herbarium Britannicum*, vol. 1, page 99*.

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Orchis subgen. *Dactylorchis* Klinge, *Acta Horti Petrop.* **17**, 148 (1898).
O. subgen. *Dactylorhiza* Nevski in Komarov, *Fl. URSS* **4**, 696 (1935),
 nom. superfl. illegit. $\equiv$ *O.* subgen. *Dactylorchis* Klinge.
Dactylorchis (Klinge) Vermeul., *Stud. Dactylorch.*, 64 (1947).
 Cf. P. F. Hunt & V. S. Summerhayes, *Watsonia* **6**, 128–132 (1965). These authors list name changes made necessary in this genus by the adoption of the older name *Dactylorhiza* in place of *Dactylorchis*. Their views on the taxonomy of the British species and subspecies are accepted here.
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- 643/1a DACTYLORHIZA FUCHSII subsp. FUCHSII.
- 643/1b DACTYLORHIZA FUCHSII subsp. OKELLYI (Druce) Soó, *Nom. Nova Gen. Dactylorch.*, 8 (1962).
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O. maculata subsp. *okellyi* (Druce) Druce in Hayward, *Bot. Pocket-book* ed. 15, 277 (1917).
Dactylorchis fuchsii subsp. *okellyi* (Druce) Vermeul., *Stud. Dactylorch.*, 69 (1947).
 [*Dactylorhiza fuchsii* subsp. *okellyi* (Druce) Soó, *Ann. Univ. Sci. Budapest. Sect. Biol.* **3**, 351 (1960), comb. invalid., basion. non rite cit.]
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Orchis hebridensis Wilmott, *J. Bot., Lond.* **77**, 192 (1939).
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Dactylorchis fuchsii subsp. *hebridensis* (Wilmott) H.-Harrison f., *Ber. Geobot. Forsch. Inst. Rübel* **1953**, 55 (1954).
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- 643/2a DACTYLORHIZA MACULATA subsp. RHOUMENSIS (H.-Harrison f.) Soó, *Nom. Nova Gen. Dactylorch.*, 7 (1962).
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- 643/2b DACTYLORHIZA MACULATA subsp. ERICETORUM (E. F. Linton) Hunt & Summerh., *Watsonia* **6**, 132 (1965). *CTW Exc* ed. 2, 488.
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Dactylorchis incarnata (L.) Vermeul., *Stud. Dactylorch.*, 65, 101 (1947).
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- 643/3a(e) DACTYLORHIZA INCARNATA subsp. INCARNATA.
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O. latifolia var. *gemmana* Pugsl., *J. Linn. Soc. (Bot.)* **49**, 578 (1935).
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Orchis incarnata var. *pulchella* Druce, *Bot. Soc. Exch. Club Brit. Is.* **5**, 167 (1918).
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- 643/3c DACTYLORHIZA INCARNATA subsp. COCCINEA (Pugsl.) Soó, *Nom. Nova Gen. Dactylorch.*, 4 (1962). *CTW Exc* ed. 2, 489.
Orchis latifolia var. *coccinea* Pugsl., *J. Linn. Soc. (Bot.)* **49**, 579 (1935).
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- 643/3d DACTYLORHIZA CRUENTA (O. F. Muell.) Soó, *Nom. Nova Gen. Dactylorch.*, 4 (1962). *CTW Exc* ed. 2, 487.
Orchis cruenta O. F. Muell., *Fl. Dan.* **5(15)**, 4 (1782).
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D. incarnata subsp. *cruenta* (O. F. Muell.) Sell, *Watsonia* **6**, 317 (1967).
- 643/3f DACTYLORHIZA INCARNATA subsp. OCHROLEUCA (Boll) Hunt & Summerh., *Watsonia* **6**, 130 (1965).
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- 643/4 DACTYLORHIZA PRAETERMISSA (Druce) Soó, *Nom. Nova Gen. Dactylorch.*, 5 (1962). *CTW Exc* ed. 2, 489.
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- 643/5 DACTYLORHIZA PURPURELLA (T. & T. A. Stephenson) Soó, *Nom. Nova Gen. Dactylorch.*, 5 (1962). *CTW Exc* ed. 2, 489.
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Dactylorchis purpurella (T. & T. A. Stephenson) Vermeul., *Stud. Dactylorch.*, 67 (1947).
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- 643/6 DACTYLORHIZA KERRYENSIS (Wilmott) Hunt & Summerh., *Watsonia* **6**, 131 (1965). *CTW Exc* ed. 2, 488.
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Cf. A. C. Jermy & T. G. Tutin, *Brit. Sedges*, 94 (1968).
- 663/66 CAREX MURICATA subsp. LEERSII Aschers. & Graebn., *Synops. Mitteleur. Fl.* **2**(2), 40 (1902).
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Cf. A. C. Jermy & T. G. Tutin, *Brit. Sedges*, 176 (1968).
- 665/1 PHRAGMITES AUSTRALIS (Cav.) Trin. ex Steud., *Nomencl. Bot.* ed. 2, **2**, 324 (1841). *CTW Exc* ed. 2, 522.
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A. palustris Salisb., *Prodr. Stirp.*, 24 (1796), nom. superfl. illegit. ≡ *A. phragmites* L.
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