

Type: Solomon Islands, Rennell Island, 18 viii 1962, *Dissing* (Noona Dan Exped.) 2738 (holo. E, iso. C).

Epithema sarawakense Hilliard & Burt, **sp. nov.** ab *E. saxatili* Bl. habitu effusiore, foliis superioribus haud (vel rarissime) jugatis 3–5 sequenter productis longe petiolatis, operculo ovarii vel glabro vel pilis hamatis paucis tantum praedito distinguitur. Type: Sarawak, Fifth Div., N of Sungai Medalam, foot of Gunung Buda, 20 vi 1975, *Burt* 8336 (holo. E, iso. SAR).

Epithema steenisii Hilliard & Burt, **sp. nov.** ab *E. tenero* (vide infra) marginibus foliorum serratis vel serrulatis (nec obscure crenulatis) et indumento calycis e pilis 0.75–1mm longis (sine aliis minimis hamatis numerosioribus interspersis) praecipue differt.

Type: NW Sumatra, Atjeh, Gaju & Alas Lands, Gadjah via Oreg to Pendeng, 600m, 16 ii 1937, *van Steenis* 8825 (holo. L, iso. K).

Epithema strigosum (C.B. Cl.) Hilliard & Burt, **comb. et stat. nov.**

Syn.: *E. brunonis* (Wall.) Decne. var. *strigosum* C.B. Cl. in A. & C. DC., Monogr. Phan. 5: 179 (1883).

Lectotype: W Sumatra, Singalang, *Korthals* 692 (L; originally labelled Java, *Blume* 692 and so quoted by Clarke).

subsp. ***philippinum*** Hilliard & Burt, **subsp. nov.**

A subsp. *strigoso* pilis in folii pagina superiore brevioribus (ad 0.5mm, nec ad 1mm longis) et corollae tubo 6mm (nec 4.5mm) longo recedit.

Type: Philippine Islands, Mindanao, Surigao Prov., Mt Kabatuan, 83m, 18 iii 1949, *Mendoza & Convocar* 297 (PNH 10434 – holo. PNH).

Epithema tenerum (C.B. Cl.) Hilliard & Burt, **comb. et stat. nov.**

Syn.: *E. brunonis* (Wall.) Decne. var. *tenerum* C.B. Cl. in A. & C. DC., Monogr. Phan. 5: 180 (1883).

O. M. HILLIARD & B. L. BURTT, Royal Botanic Garden Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR, UK

***Cortinarius* subgenus *Phlegmacium* section *Phlegmacioides* (= *Variocolores*) in Europe:
new names and combinations**

A monographic treatment of *Cortinarius* subgen. *Phlegmacium* sect. *Phlegmacioides* (Fr.: Fr.) Brandrud et al. is scheduled for publication in *Edinburgh Journal of Botany* 55(1) in early 1998. The nomenclatural innovations originally intended for that monograph are made below so that they are available for use in other works sched-

uled for 1997. These include *Cortinarius*, *Flora Photographica*, Vol. 4 and the author's doctoral thesis.

***Cortinarius acidophilus* Brandrud, sp. nov.**

Pileus 3–7cm, leviter viscosus (vel glutinosus) mox siccus, fibrillosus, ad centrum adpresso-tomentosus vel squamosus, obscure brunneus, marginem primo saepe violaceus. Lamellae pallide griseo-albidae, debiliter violaceo-tinctae. Stipes 4–7(–9) × 0.8–1.2cm, ad basim claviformis, albidus vel griseus, ad basim ochraceus, e velo violaceo cingulato-fibrillosus. Caro albida. KOH ope lutescens. Sporae 10–11.5 × 5.5–6.5µm, amygdaliformes vel subcitriformes, distincte et satis dense verrucosae. Pileicutis e stratis simplicibus formata, pigmento distincte incrustanti. Habitatio in silvis coniferis (*Picea abies*). Holotypus: Norvegia, Oppland, Lunner, Øståsen, 1 viii 1979, T.E. Brandrud TEB 61-79 (O).

***Cortinarius balteatoalbus* R. Henry var. *areni-silvis* Brandrud, var. nov.**

A typo differt sporis plus parvioribus, 8–9.5 × 4.5–5µm. Habitatio in silvis coniferis borealibus (*Pinus*, *Picea*) in solo arenosus. Holotypus: *Cortinarius*, *Flora Photographica* no. 461b, Suecia, Ångermanland, Graninge, Viksmon, 25 viii 1986 (S, iso. O).

***Cortinarius durus* P.D. Orton var. *chamaesalicis* (Bon) Brandrud, comb. nov.**

Basionym: *Cortinarius chamaesalicis* Bon in Bull. Féd. Mycol. Dauphiné-Savoie 97: 26 (1985). Type: *M. Bon* 84111 (holo. hb. Bon).

***Cortinarius patibilis* Brandrud & Melot var. *scoticus* Brandrud, var. nov.**

A typo differt pileo magis viscoso et glabroso, sporis majoribus, 11–12 × 5.5–6.5µm, amygdaliformibus vel subcitriformibus, distincte verrucosis, pileicute cum hyphis distincte incrustantibus. Habitatio sub *Betula pubescenti* zonis subalpinis. Holotypus: Scotia, Perthshire, Calvine, Struan Wood, 22 ix 1983, T.E. Brandrud TEB 161-83 (E, iso. O).

***Cortinarius spadicellus* (Mos.) Brandrud, comb. nov.**

Basionym: *Phlegmacium spadicellum* Mos., Gatt. Phlegm.: 357 (1961). Type: *M. Moser* 50/144 (holo. M).

Syn: *Cortinarius amigochrous* Kühn. in Bull. Soc. linn. Lyon 29: 52 (1960), nom. inval. Type: not indicated.

***Cortinarius vacciniophilus* Brandrud, sp. nov.**

Pileus 4–10cm, leviter viscosus vel glutinosus, glaber, centrum adpressus squamosus, ochraceo-brunneus vel fulvus. Lamellae pallide griseo-albidae. Stipes 6–11(–13) × 0.8–1.5(–2)cm, ad basim claviformis, albidus, dein pallide ochraceus,

ad basim brunnescens, e velo albido fibrillosus. Caro albida. KOH ope lutescens. Sporae 11–12.5 × 6–7 μm amygdaliformes vel subcitriformes, distincte et satis dense verrucosae. Pileicutis e stratis simplicibus formata, pigmento distincte incrustanti. Habitatio in silvis coniferis (*Picea abies*). Holotypus: Norvegia, Oppland, Lunner, Søndre Oppdalen, 9 viii 1988, *T.E. Brandrud* TEB 17-88 (O).

Syn.: ?*Phlegmacium schaefferianum* Mos., Gatt. Phlegm.: 253 (1961), nom. inval. *Cortinarius schaefferi* Mos., Sydowia 6: 38 (1952), nom. homon., non *C. schaefferi* Bres., Ic. mycol.: 648 (1930). Type: not indicated.

Misapplied names: *Phlegmacium latum* (Pers.) F. Kaufm. sensu Mos., Gatt. Phlegm.: 251 (1961). ?*Cortinarius imbricatoides* R. Henry sensu Bidaud, Moëgne-Locc. & Reum., Atl. Cortin. 7: 301 (1995).

***Cortinarius violaceomaculatus* Brandrud, sp. nov.**

Pileus 4–9 cm, leviter viscosus mox siccus, glaber dein fibrillosus, griseo-brunneus dein obscure brunneus. Lamellae pallide griseo-albidae. Stipes 5–9 × 1–2 cm, cylindricus vel ad basim claviformis(-attenuatus), albidus vel pallide violaceo-griseis, ad basim violaceomaculatus, brunnescens, e velo albido vel brunneo fibrillosus. Caro albida, ad basim cortex violaceo, brunnescens. KOH ope caro laete luteam. Sporae 8.5–10 × (4.5–)5–5.5 μm, amygdaliformes vel subellipsoideae, distincte et satis dense verrucosae. Pileicutis e stratis simplicibus vel duplicibus formata, pigmento distincte incrustanti vel parietali. Habitatio in silvis coniferis (*Picea abies*, *Pinus sylvestris*) in solo calcareo. Holotypus: Cortinarius, Flora Photographica no. 1449, Suecia, Gotlandia, Bäl, 28 ix 1993 (S, iso. O).

Misapplied name: *Cortinarius cyanobasalis* R. Henry sensu Moëgne-Locc. & Reumaux p.p., Atl. Cortin. 1: 24, pl. 13 (1990).

***Cortinarius* subsect. *Serarii* Brandrud, subsect. nov.**

Pileus viscosus, glaber, violaceo-griseus, dein ad centrum incarnato-brunneus; lamellae albido-griseae; stipes claviformis, albido-griseus; caro albida, in apicem stipite grisea. Sporae amygdaliformes-subellipsoideae, distincte et satis dense verrucosae; pileicutis e stratis simplicibus formatus. Typus subsectionis: *Cortinarius serarius* Fr.

T. E. BRANDRUD, Norwegian Institute for Water Research, P.O. Box 173, Kjelsås, N-0411 Oslo, Norway.