

AUSTRALIAN FUNGI: NOTES AND DESCRIPTIONS. — No. 7.

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The last paper of this series, No. 6, appeared in these Transactions and Proceedings, vol. li., 1927, pp. 298-306. . . .

484. *Cortinarius (Phlegmacium) lavendulensis*, n. sp. — Pileus 2½ to 3½ ins. (6.2 to 8.7 cm.), glutinous, irregularly convex, finally somewhat upturned, pallid with stone-coloured to brownish tints. Gills slightly sinuate, moderately close, up to ⅜ in. (10 mm.) deep, when young paler than Wood Brown (xl.) with a slight violet tint, then Sayal Brown (xxix.), then more tawny near Antique Brown (iii.). Stem 2 to 3 ins. (5 to 7.5 cm.) high, moderately stout to stout (½ to ¾ in., 1.2 to 1.8 cm., thick), base usually bulbous (up to 1 to 1½ in., 2.5 to 3.7 cm.), fibrillose, solid, whitish with tints of Pale Bluish Lavender (xxxvi.), pallid below, with a broad subcentral zone of brownish fibrils from the veil. Flesh slightly

lilac-tinted in the stem. Smell slight. Spores oblique, one end more pointed, yellow-brown, 11 to 12 X 6 to 6.5 μ. Under bushes. S.A. — Mt. Lofty, July, 1928.

Specimens, all apparently belonging to this species, vary somewhat. The pileus may be only 1¼ in. (3.2 cm.) in diameter, and may be a little rugose-rivulose. It may be pure white with tints of Pinkish Buff (xxix.) becoming darker and more scorched looking (Mt. Lofty, July, 1928). The gills at first may be very pale buff, then Pinkish Buff to Cinnamon Buff (xxix.) and Ochraceous Buff (xv.) or Ochraceous Tawny (xv.). The stem may be rather slender, its bulb may be absent or have a slightly raised edge, it is occasionally hollow and it may lack an obvious lilac or lavender tint or show this only faintly. The veil is whitish or remnants on the stem may appear brownish. The flesh of the pileus is thick over the disc, thin and equally attenuated outwards. It may be white or have a trace of buff or be slightly yellowish or in places watery-greyish. The lilac tint in the flesh of the stem may not be noticeable and there was a greenish tint lining a hollow in one stem. The spores vary from 7.5 to 9 X 4.5 to 5 μ (Kuitpo, June, 1928, Miss Buxton, Watercolour No. 20 — lavender tints not noticeable on the stem) to the figures given. Dried specimens have pallid or scorched-looking pilei with bright ochraceous-tawny gills. The species has also been collected at Mt. Lofty in April and August.

485. (I., 1918, No. 13.) *Cortinarius (Phlegmacium) rotundisporus*, Clel. et Cheel. — This species is probably correctly referred to the section *Phlegmacium*, though the stickiness of the pileus is not great and most collections have been made when this has disappeared. The pileus may reach 2½ ins. (6.2 cm.), may be gibbous or depressed in the centre and may be somewhat squamulose becoming rimosely cracked and with the edge lacerated. The predominating colour is yellowish or yellowish-brown or

sometimes brownish [near Honey Yellow (xxx.) in the centre to Cream Buff (xxx.) at the periphery, or Mustard Yellow (xvi.) to Buff Yellow (iv.) or Deep Colonial Buff (xxx.) or Isabella Colour (xxx.).] This ground colour is streaked or tinted with blue or greenish-blue [Burn Blue (xxxiv.) or Greenish Glauous Blue (xlii.) or Ramier Blue (xliii.) or near Gnaphalium Green (xlvii.)]. The gills may vary from deeply sinuate to emarginately adnexed and sometimes even adnate. They are pallid when young becoming Isabella Colour (xxx.), Tawny Olive (xxix.), Sayal Brown (xxix.), or Snuff Brown (xxix.). A slight violet tint has been noticed occasionally when young. The stem may reach 3 ins. (7.5 cm.), may be slightly swollen at the base, and is yellowish tinted with the blue of the pileus. The yellowish flesh sometimes has lilac or violet tints. The spores are pear-shaped subspherical, smooth or slightly rough, 6.5 to 9 X 5.5 to 6.2 μ , 6 to 9 μ ., or in the Kuitpo specimens 9.5 to occasionally 10.5 X 6.5 μ . S.A. — Mt. Lofty, April, June, July, Aug.; National Park, Aug.; Kuitpo, March.

Cortinarius (Phlegmacium) largus, Fr. — *Vide* this series, I., 1918, No. 12.

486. *Cortinarius (Phlegmacium ?) castaneo-fulvus*, n. sp. — Pileus 2 ins. (5 cm.), convex, a little irregular, substriate, sticky when moist, rich dark brown near Argus Brown (iii.) and Chestnut Brown (xiv.). Gills adnate, moderately close, edges slightly serrate, near Raw Sienna (iii.). Stem up to 3 ins. long, moderately slender to moderately stout, fibrillose, hollow, tinted with yellowish and brown, with brownish threads of the veil. Flesh yellowish. Spores elliptical, yellow-brown, 8.5 X 5.5, 9 to 10 X 6.5 to 7 μ . In the dry specimens, the very dark nearly black pileus and stem contrast with the yellow-brown (near Sudan Brown or Brussels Brown, iii.) gills. S.A. — Mt. Lofty, June, 1928.

The species seems best referred to *Phlegmacium*, though the stickiness seems evanescent and was frequently not noted. There is, as usual, considerable variation in collections apparently all of the same species. The pileus may vary from 1½ to 3 ins. (3.7 to 7.5 cm.) and may be deeply and irregularly convex, with a

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large boss so as to be almost conical, or it may be gibbous or repand; its edge may be furrowed or lacerated; it may be innately silky-fibrillose or minutely tomentose; in colour it may be Mars Brown (xv.) [Stirling West, July, 1927] or Cinnamon Brown (xv.) [Mount Lofty, August], Chestnut to yellow-chestnut or dark chestnut, or Russet (xv.) [Belair, July, 1928, Miss Buxton, Watercolour No. 22]. The gills may be slightly sinuate, are usually finely serrate or sometimes crenulate, and may be Cinnamon Brown (xv.), Ochraceous Tawny (xv.), golden-yellow or yellow-brown, and when dry near Mummy Brown (xv.). The stem may be only 1½ ins. (3.7 cm.) high, may be flattened above and attenuated below, and may be pallid yellowish. The flesh is thin, attenuated outwards, and may be pale reddish-brown, and may have a dark line along the gill attachment and under the crust. The spores often appear slightly rough, may approach subspherical in form, and vary from 7.5 to 10.4 X 5.5 to 7 μ . Also collected at Mt. Lofty in July.

487. *Cortinarius (Phlegmacium) sublargus*, n. sp. — Pileus up to 4½ ins. (11.2 cm.), slightly convex to nearly plane or with the centre depressed, slightly sticky, subfibrillose, near Ochraceous Tawny (xv.) or darker. Gills slightly sinuate, moderately close, up to ½ in. (1.2 cm.) deep, near Ochraceous Tawny. Stem up to 3 ins. (7.5 cm.)

high, stout (1 in., 2.5 cm., thick), fibrillose, solid, more or less ochraceous-tawny or yellowish. Flesh of pileus soapy-yellow, of the stem yellowish. Spores oblique, yellow-brown, 9 X 5.5 μ . S.A. — Mt. Lofty, June, 1928.

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Cortinarius (Myxamicium) ruber. Vide this series, VI., 1927, No. 474.

488. (VI., 1927, No. 475.) *Cortinarius (Myxamicium) subarvinaceus*, Clel. — Further specimens have been collected at Mt. Lofty, March and April, and Encounter Bay, May. The pileus may reach 4½ ins. (11.2 cm.) in size and may be Amber Brown (iii.) to yellow-brown. Some Mt. Lofty plants show a bulbous base to the stem with a rim, others lack this. The stem may also be rather slender and may become hollow. The gills were adnate and their sides rugose in the Encounter Bay specimens. The March Mt. Lofty specimens had spores of 10 to 13 X 5.6 to 7 μ , the April ones 13 to 17 X 8.8 μ .

489. (VI., 1927, No. 476.) *Cortinarius (Myxamicium) ochraceus*, Clel. — Further collections from Mt. Lofty, June, show that the pileus, gills, and stem may be Yellow Ochre (xv.), or the pileus Ochraceous Tawny (xv.), the gills near Sudan Brown (iii.). The pileus may reach 3½ ins. (8.7 cm.) and the stem 2½ ins. (6.2 cm.). The pileus may be slightly rugoso-striate and the stem may be fibrillose and tend to be hollow. Spores 8.5 to 9.5 X 4.5 to 5 μ . Specimens collected at Mt. Lofty in April, 1924, have the pileus near Cinnamon and Sayal Brown (xxix.), the gills Ochraceous Tawny (xv.), the stem similarly tinted, the

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pileus pilose, the gills sinuate, ventricose and rather deep, spores 7.5 X 4.2 μ . Kinchina specimens July, 1923, apparently this species, have the pileus browner than Citrine Drab (xl.), the stem with tints of the same, the gills near Buff Brown (xl.) when young, spores 8 X 5 μ .

490. (I., 1918, No. 14.) *Cortinarius (Myxamicium) Archeri*, Berk. — S.A. — Mt. Lofty, May, June, July.

491. *Cortinarius (Myxamicium) subarcheri*, n. sp. — Pileus up to 3½ ins. (8.7 cm.), convex, sometimes irregular, viscid, violet, becoming pale brownish above or brownish-violet to brown or pallid lavender. Gills sinuate, slightly toothed, moderately close, Pinkish Cinnamon (xxix.) tinged with violet or violet becoming Vinaceous Fawn (xl.). Stem 1½ ins. (3.7 cm.) high, becoming more elongated, at first thick (up to 1½ ins., 3.7 cm.) downy fibrillose, violet tinted or Pale Lobelia Violet (xxxviii.), mycelial mass at the base. Flesh with violet-lilac tints. Spores yellow-brown, obliquely elliptical, 9 to 10 X 4.5 to 5.5 μ . S.A. — Bundaleer State Forest, June, 1928; in *Eucalyptus Baxteri* forest, Mt. Burr Forest Reserve, May, 1928. The same species was probably also collected at Kinchina, July, 1923, spores almost mummy-shaped, narrow, 8.5 to 9.5 X 5 μ .

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492. *Cortinarius (Dermocybe) sanguineus*, (Wulf.) Fr. — Pileus up to 1¼ ins. (3 cm.) or more, broadly conical to conico-convex, then convex, obtuse or gibbous, innately fibrillose, the edge sometimes slightly sulcate, or silky shining to coarsely rugose, dark blood-red [browner than Morocco Red (i.), near Morocco Red with the centre Claret Brown (i.), or near Brazil Red (i.)]- Gills adnate to adnato-adnexed or

slightly sinuate, moderately close to crowded, dark red becoming rusty-red [near Burnt Sienna (ii.), becoming Sanford's Brown (ii.), near Morocco Red or Brazil Red.] Stem 2 to 3½ ins. (5 to 8.7 cm.) high, moderately stout to rather slender, swollen below or nearly equal, fibrillose, slightly hollow, blood-red (near Burnt Sienna, tinged with Morocco Red), paler above. Veil fugacious, arachnoid, reddish. Flesh thickish below the umbo, thin externally, pallid reddish or slightly yellowish-red, not exuding a juice when pressed. Spores elliptical, pear-shaped or rather rotund, oblique, sometimes slightly rough, yellow-brown, 6.5 to 9.5 X 4.8 to 7.2 μ. S.A. — Mt. Lofty, June and July; National Park, August (Jeffrey, photo. No. 1; photo. No. 34).

Our plants seem to differ from British ones in the pileus not being shaggy or squamulose, in the base being sometimes rather swollen and in having no appreciable juice.

493. *Cortinarius (D.) austro-venetus*, n. sp. — Pileus up to 3 ins. (7.5 cm.), convex, then nearly plane, more or less gibbous, with subinnate villous down, dark green [near Olive Citrine (xvi.)], darker in the centre. Gills adnate, close, Olive Ochre (xxx.). Stem up to 3 ins. (7.5 cm.) high, rather stout (up to ½ in., 1.2 [1.2?] cm.) below to slender, slightly attenuated upwards, fibrillose, hollow, pallid tinged with the colour of the gills. Flesh thick over the disc, very attenuated towards the edge. Veil fugacious. Spores oblique, dull brown, 9.5 to 13 X 5.5 to 6.5, sometimes 8 X 5 μ. S.A. — Mt. Lofty, June, July; National Park, August.

494. *Cortinarius (Dermocybe) subcinnamoneus*, n. sp. [*subcinnamomeus*?] — Pileus up to 2½ ins. (6.2 cm.), convex, gibbous, then expanding, sometimes slightly upturned and

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wavy, minutely fibrillose, near Snuff Brown (xxix.), passing into Bister (xxix.) in the centre, later Burnt Umber (xxviii.), becoming nearly black in the centre, Saccardo's Umber (xxix.) when young. Gills sinuate, moderately close, ⅜ in. (10 mm.) deep, when young Mustard Yellow (xvi.), becoming near Buckthorn Brown (xv.). Stem up to 3 ins. (7.5 cm.) high, slender or stout (¼ to ½ in., 6 to 12.5 mm.), slightly bulbous, somewhat fibrillose and striate, markedly hollow, with tints of Naples Yellow (xvi.). Flesh yellowish, heaped up under the umbo, gradually attenuated outwards. Cobweb veil pale yellowish. Spores irregularly elliptical, slightly rough, yellowish-brown, 10.5 X 6.5 μ. Gregarious. S.A. — Mt. Lofty, June, 1921 (Miss Fiveash, Watercolour No. 16). The whole plant becomes a very dark brown when dried.

Variations noted in other collections comprise the following:— The pileus may be irregularly plane, subsquamulose, near Sudan Brown and Argus Brown (iii.) or near Hazel (xiv.). The gills may be slightly sinuate to adnexed and Sulphine Yellow (iv.) in single plates to Aniline Yellow (iv.) in masses, or Olive Ochre (xxx.) when young, passing to Buckthorn Brown (xv.). The stem may be stout (up to ¾ in., 18 mm. above), slightly attenuated downwards and pallid with brownish tints. The spores are oblique, with one end pointed, 9 to 11 X 5 to 7.5 μ. S.A. — Mt. Lofty, June and July.

We originally referred the species to the European *C. cinnamoneus* [*cinnamomeus*], (L.) Fr., to which it seems closely allied, differing in a darker pileus, in the gills being usually definitely though often slightly sinuate, and in the decidedly larger spores (*C.*

cinnamoneus [sic], in Rea's British Basidiomycetes, 6 to 8 X 4 to 5 μ).

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495. *Cortinarius (Telamonia) striatulus*, n. sp. — Pileus up to 1 in. (2.5 cm.), somewhat convex to nearly plane, more or less gibbous, wavy on the margin, sometimes slightly repand, very finely fibrillose, submembranaceous, when moist striate at the periphery and between Russet and Cinnamon Brown (xv.), with a pale ring round the edge, when dry paler than Cinnamon Buff (xxix.). Gills sinuate, moderately close, slightly ventricose, near Sayal Brown (xxix.), with narrow finely serrate whitish edges. Stem 2 ins. (5 cm.) high, moderately slender, a little flexuous, sometimes flattened, attenuated at the base and sometimes at the apex as well, fibrillose, markedly hollow, pallid, with a brownish tint above. Flesh pallid with a slight reddish-brown tint. Spores yellow-brown, oblique, 7.5 X 4 μ , subcaespitose amongst shrubs under Eucalypts. S.A. — Mt. Lofty, July 28, 1928.

496. *Cortinarius (Telamonia) russeo-cinnamoneus*, n. sp. [*-cinnamomeus?*] — Pileus $\frac{3}{4}$ to 1½ ins. (1.8 to 3.7 cm.), irregularly convex, then more expanded, edge wavy, sometimes repand, more or less gibbous, very finely fibrillose, submembranaceous, edge slightly inturred when young, when moist Russet (xv.) or Mikado Brown (xxix.), drying to Cinnamon Buff or Clay colour (xxix.). Gills adnato-sinuate

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with a slight decurrent tooth, moderately close, ventricose, tawny cinnamon, edges not pallid or serrate. Stem 1½ to 2½ ins. (3.7 to 6.2 cm.) high, moderately slender, attenuated at the base, sometimes flexuous, finely silky-fibrillose, solid, then hollow, white. Flesh of stem pallid reddish-brown. Veil when very young has delicate white fibrils covering the globose pileus and descending to clothe the stem. Spores yellowish-brown, 7.5 to 9 X 4.2 to 5.5 μ , subcaespitose under Eucalypts. S.A. — Belair, July 28, 1928 (Miss Buxton, Watercolour No. 23); Mt. Lofty, June, 1928 (pileus up to 2 ins., 5 cm., usually finally irregularly upturned, Tawny to Ochraceous Tawny (xv.) when moist, drying paler than Ochraceous Buff (xv.); gills Ochraceous Tawny and darker); National Park, August, 1927.

497. *Cortinarius (Telamonia) fibrillosus*, n. sp. — Pileus 1 to 1½ ins., deeply convex, then convex and gibbous, hoary from whitish mealy fibrils sometimes forming a white edge to the pileus, when moist reddish-brown [near Russet (xv.) or darker], when dry between Cinnamon and Cinnamon Buff (xxix.). Gills adnexed, moderately close, yellower than Ochraceous Tawny (xv.). Stem up to 1¾ in. (4.3 cm.) high, slender, fibrillose, pallid whitish, hollow. Flesh reddish, thin. Spores pale brown, oblique, 9 X 4.5 μ . Caespitose on the ground near stumps. S.A. — Mt. Lofty, June, 1928, and June, 1927.

498. *Cortinarius (Telamonia) vinaceo-cinereus*, n. sp.—Pileus 1 in. (2.5 cm.), at first globose, then irregularly convex, minutely fibrillose, slightly rugose, vinaceous drab-brown with paler rim, drying pallid brownish. Gills adnate, slightly ventricose, moderately close, Purple Drab (xlv.) becoming Bay (ii.). Stem up to 1 in. (2.5 cm.), slightly flexuous, moderately slender, fibrillose, colour of the gills then pallid. Universal veil with outer fibres brownish and covering the pileus when young with fine fibres,

inner fibres pallid. Spores dull brown, nearly subspherical with one end rounded, the other more acute, 9 X 7.5, 7.5 X 6 μ .. Single. Belair, July, 1928 (Miss Buxton, Watercolour No. 24).

N. H. S. imit. & ed., 2007.04.