The Drummond collection of Western Australian fungi at the Royal Botanic Gardens, Kew

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Abstract

Hilton, Roger N. The Drummond collection of Western Australian fungi at the Royal Botanic Gardens, Kew. Nuytsia 4(3): 333-357 (1983). The 158 specimens of fungi collected by James Drummond between about 1843 and 1846 are reconsidered in the light of modern knowledge. They are arranged in order of Drummond's collecting numbers. Up-to-date information is given on the current taxonomic status, revisions and geographical distribution of included species. The present list acts as a companion to Berkeley's Decades of Fungi 3-8 (Units 21-73), incorporating extra material from the Drummond/Hooker correspondence, and providing the index wanting in the original. Fifty-five species described as new from the Drummond collections are included, of which 12 are now regarded as synonyms.

Introduction

The Western Australian collection of fungi made by James Drummond is important because it represents one of the first from the Southern Hemisphere and one made at the time that M. J. Berkeley and Elias Fries were naming new species from all over the world. A contemporary collection from Western Australia, that of Ludwig Preiss, was determined by Elias Fries, however, the Preiss collection was smaller (some 40 numbers compared with 158 by Drummond), was published a year later, and only a single number appears to be extant (Hilton 1982), whereas most of the Drummond fungi survive in the Kew Herbarium.

James Drummond was collecting plants and fungi in Western Australia from the time of his arrival there in 1828 as a 44-year old migrant until his death in 1863 (Erickson 1969). Most of his extensive collections were of flowering plants but in the winter of 1843 he gathered together 300 cryptogams, numbers 100-300 being those that he recognised as fungi. Of the fungi, some 130 survived and the consignment was sent to Sir William Jackson Hooker at Kew, with the third collection of plants, dated August 1844. Hooker passed the fungi to the Rev. M. J. Berkeley (1803-89) for determination. Berkeley returned a portion of each number, and these became a part of the Herb. Hookerianum bequeathed to Kew in 1867. With the acquisition of Herb. Berkeleyanum in 1879, the Kew Herbarium came to hold many of the numbers in duplicate. Berkeley's determinations, with comments and quotations from Drummond's notes, were published in Decades of Fungi, 1844-56, brought together in 1969 as an A. R. Asher Reprint. Since 1845 most of the Drummond specimens have been the subject of re-examination by specialists, and the Western Australian fungus flora itself has become better known. Many of these specimens have been cited in a census of Western Australian larger fungi (Hilton 1982). All the Drummond specimens have been seen by the author in the Kew Herbarium except when specifically stated to the contrary. This list should be used in conjunction with Berkeley (1844-56), as only comments by Drummond additional to those recorded by Berkeley are given. To facilitate cross reference, the Decade and Unit number is cited at the beginning of the commentary on each specimen. Apart from Decade 1, Units 1 and 5, six decades are involved, made up of Unit numbers 21-73, the remaining 7 units of the last decade being of fungi from North America. As explained by Berkeley (1844-56 p. 1), comment on a number of species is intercalated under various Unit numbers; this is indicated here by the prefix 'sub' before the number.

Of the 200 or so 'numbers' that Drummond collected, 73 deteriorated after collection but before despatch or became detached from their labels; these are here listed "not represented". A 'number' sometimes included more than one species. There were also unnumbered fungi, and three collected subsequent to the main collection. Fifty-five were described as new species, of which 12 have now been recognised as synonyms.

The taxonomic position for late 1980 is given under 'current name'. Whereas there will, no doubt, be further taxonomic revisions, it is unlikely that much more Drummond material will come to light.

List of Drummond collections

The list is arranged sequentially according to Drummond's collecting numbers. Where several species occur under one collecting number they are distinguished by a, b, c, d etc.

- Tremella foliacea Fr., Syst. mycol. 2: 212 (1822); Decade 6/sub 54.
 Current name: As above.
 Notes: Collected by Drummond as a lichen. A common jelly fungus on wood.
- Agaricus (Pholiota) allantopus Berk., Lond. J. Bot. 4: 45 (1845);
 Decade 3/27.

Current name: Gymnopilus allantopus (Berk.) Pegler (1965 p. 323). Notes: Reported on by Pegler (1965 p. 323). It does not match the most common wood-attacking toadstool throughout the South West, which is allied to Gymnopilus penetrans (Fr. ex Fr.) Murrill, but it does belong to the same genus.

101- 103. Not represented.

Agaricus campestris L. var. maximus Drummond in Berkeley; Decade 3/sub 29.

Current name: As above.

Notes: Drummond (1843) states that this is a large species, middlesized specimens being 30 cm in diameter with stalks 5 cm thick, associated with Wandoo. The largest and most prolific mushrooms still come from the Wandoo belt.

105. Agaricus campestris L. var. varius Drummond in Berkeley; Decade 3/sub 29.

Current name: As above.

Notes: Drummond (1843) stated that this was associated with York Gum. Similar forms now appear throughout the metropolitan area, as well as eastwards to the York Gum country.

Agaricus (Lepiota) rhizobolus Berk., Lond. J. Bot. 4: 42 (1845);
 Decade 3/21.

Current name: Lepiota rhizobola (Berk.) Sacc., Syll. Fung. 5: 41 (1887).

Notes: The description corresponds with that of an Amanita of the form of Amanita conico-bulbosa Cleland, Drummond's remarks

under specimen No. 121 support this diagnosis, as does Berkeley's comparison with *Agaricus vittadinii*, now recognised as an *Amanita*. Absence of the type from Kew prevents confirmation.

107. Agaricus (Volvaria) xanthocephalus Berk., Lond. J. Bot. 4: 45 (1845): Decade 3/26.

Current name: Amanita xanthocephala (Berk.) Reid & Hilton, in

Reid (1980 p. 65).

Notes: Drummond (1843) suggested that this was an Amanita when discussing specimen No. 121 (q.v.). This suggestion has been confirmed. It is the pan-Australian species usually called Amanita pulchella (Cooke & Massee) Gilbert (=Amanita austro-pulchella Reid).

108. Agaricus excoriatus Fr., Hymen. Eur. p. 30 (1874); Decade 3/sub 21.

Current name: Lepiota excoriata (Fr.) Kummer fide Aberdeen (1962).

Notes: Drummond (1843) stated that it was "allied to campestris". Aberdeen (1962 p. 132) found spore and fruit body size, but not scales on the cap, to be consistent with Lepiota excoriata. He suggested this name be retained temporarily for the W.A. specimens pending further clarification by comparison with fresh material.

Agaricus (Pleurotus) lampas Berk., Lond. J. Bot. 4: 44 (1845); Decade 1/1 and 3/25.

Current name: Pleurotus nidiformis (Berk.) Sacc., Syll. Fung. 5: 357 (1887).

Notes: In 1841 Drummond sent a specimen of this fungus to Berkeley, who gave it the name which has priority (Willis 1953 p. 33): *Pleurotus nidiformis.* This well-known luminous fungus has been re-collected many times and is also widespread in the eastern part of Australia.

110. "On the trunk, or parasitical on the roots, of the Native Gumback, a species of *Melaleuca*." Drummond (1843). This number is not in the Decades, nor was a corresponding specimen found in the Kew Herbarium. This could have been another collection of *Pleurotus nidiformis* (Berk.) Sacc., a species which is often found growing up from the surface roots of dying melaleucas.

 Paxillus eucalyptorum Berk., Lond. J. Bot. 4: 49 (1845); Decade 4/31.

Current name: As above.

Notes: the colourless elongated spores described by Berkeley do not fit *Paxillus*, but no material survives for examination. A common species of *Paxillus* that Drummond would certainly have collected is *Paxillus muelleri* (Berk.) Sacc., but the sketch by Drummond on page 18 of his letter (Drummond 1843) shows a fungus too massive to be this. The size and colourless elongated spores would fit one of the *Lentinus* species common in the State.

112. Cortinarius (Myxacium) erythraeus Berk., Lond. J. Bot. 4: 48 (1845); Decade 3/30.

Current name: Cortinarius erythraeus Berk.

Notes: A small but distinctive red *Cortinarius*. This name predates *Cortinarius ruber* Cleland according to Moser & Horak (1975 p. 574). It has been re-collected a number of times in recent years.

113. Agaricus (Tricholoma) muculentus Berk., Lond. J. Bot. 4: 43 (1845); Decade 3/22.

Current name: Tricholoma muculentum (Berk.) Sacc., Syll. Fung. 5: 91 (1887).

Notes: No. 43 in the type description is a misreading of the number 113 written on the specimen. It was growing amongst moss, which is still to be found accompanying the type specimen.

114. Cantharellus viscosus Berk., Lond. J. Bot. 4: 49 (1845); Decade 4/32.

Current name: As above.

Notes: This name was accepted by Pegler (1965 p. 348) and Corner (1966 p. 59) as the result of their examination of the type material, but the fungus has not been re-collected.

- 115. Agaricus gilvus Fr., Hymen. Eur. p. 95 (1874); Decade 3/sub 22. Current name: Clitocybe gilva (Fr.) Sacc., Syll. Fung. 5: 612 (1887).
- 116. Agaricus (Naucoria) drummondii Berk., Lond. J. Bot. 4: 46 (1845); Decade 3/28.
 Current name: Pholiota drummondii (Berk.) Pegler (1965 p. 330).
 Notes: Pegler (1965 p. 330) recombines it as a Pholiota; it is not the common wood-attacking toadstool close to Pholiota highlandensis (Peck) A. H. Smith & Hesler, and has not been re-collected.
- Not represented.
- 118. Bolbitius fragilis Fr., Epicr. Syst. mycol. 254 (1838); Decade 3/sub 29.
 Current name: Bolbitius vitellinus (Fr.) Fr., Epicr. Syst. mycol. p. 24 (1838).
 Notes: Bolbitius fragilis is generally accepted as a synonym of B. vitellinus and the Kew specimen is consistent with this species.
- 119. Agaricus radicatus Fr. var. superbiens Berk., Lond. J. Bot. 4: 43 (1845); Decade 3/23. Current name: Oudemansiella radicata, (Relhan ex Fr.) Singer, Ann. mycol. Berl. 34: 333 (1936). Notes: Pegler (1965 p. 345) regards this taxon as one of the many varieties of this species, but does not accept the name superbiens.
- 120. Not represented.
- 121. "This species, 106, and 107, are allied to Agaricus muscarius. 121 has a volva at the root but is distinguished from 106 by its smaller root, it is much rarer here than 106. I think I remember it as a British species." (Drummond 1843). This might have been one of the amanitas similar to Amanita vaginata, but no material is extant to confirm this.
- 122. Not represented.
- 123. Exidia glandulosa Fr., Syst. mycol. 2: 224 (1822); Decade 6/sub 54. Current name: As above.
 Notes: The Kew specimen has not been found, nevertheless this is a cosmopolitan species that has been re-collected many times.
- 124. Not represented.

125. Polyporus (Apus) portentosus Berk., Lond. J. Bot. 3: 188 (1844); Decade 1/5.

Current name: *Piptoporus portentosus* (Berk.) G. H. Cunningham (1965 p. 106).

Notes: As No. 142. This is the familiar large bracket fungus which grows high up on jarrah, blackbutt, marri and flooded gum, in all of which it causes a brown rot of the timber. It is also well-known in the eastern parts of Australia.

- 126 and 127. Not represented.
- 128. Agaricus nudus Bull. ex Fr., Hymen. Eur. 72 (1874); Decade 3/sub 21.

Current name: Lepista nuda (Fr.) Cooke, Hand. Br. Fung. 1: 192 (1871).

Notes: "A beautiful sp. allied to campestris." Drummond (1843). However, the hyaline spores of the specimen at Kew do not confirm this alliance, but are consistent with the specimen being a large-spored variety of Lepista nuda (Fr.) Cooke. There is no other authenticated record from the State of this well-known species.

- 129. Agaricus mollis Fr., Syst. mycol. 1: 274 (1821): Decade 3/29.
 Current name: Crepidotus uber (Berk. & Curt.) Sacc., Syll. Fung. 5: 878 (1887).
 Notes: As No. 272a and 296. It has been equated with Crepidotus uber (Berk. & Curt.) Sacc. by Pilát (1950 p. 236).
- 130. Polyporus (Resupinatus) tardus Berk., Lond. J. Bot. 4: 56 (1845); Decade 5/43. Current name: Poria tarda (Berk.) Cooke, Grevillea 14: 109 (1886). Notes: Discussed by Ryvarden (1977 p. 226) and provisionally accepted by him as Poria tarda (Berk.) Cooke.
- Agaricus atrocaeruleus Fr., Syst. mycol. 1: 190 (1821); Decade 3/sub 25.
 Current name: Hohenbuehelia atrocaerulea (Fr.) Singer, Agaricales 255 (1949).
- 132. Agaricus perpusillus Fr., Syst. mycol. 1: 195 (1821); Decade 3/sub 25. Current name: Pleurotus perpusillus (Fr.) Sacc., Syll. Fung. 5: 383 (1887). Notes: In the absence of spores or any special structure on the specimen that would indicate otherwise, the name stands.
- 133. "A beautiful plant in which the gills are placed in pairs and when dry turn in opposite directions." Drummond (1843). Although the specimen did not survive to reach Berkeley, it was doubtless the same as specimen 280, Schizophyllum commune Fr.
- Lentinus fasciatus Berk., Hook. J. Bot. 2: 146 (1840); Decade 4/sub 32.

Current name: Panus fasciatus (Berk.) Pegler, (1965 p. 331).

Notes: "Like the figure of L. fasciatus in Journal of Botany"

Drummond (1843), who thereby identified it. Pegler (1965) recombined it as Panus fasciatus, under which name a number of new Western Australian collections were described in detail by Broughton & Hilton (1972).

135. Polyporus (Apus) venustus Berk., Lond. J. Bot. 4: 55 (1845); Decade 5/42.

Current name: Trametes versatilis Berk., Lond. J. Bot. 1: 150 (1842).

Notes: As Reid (1967) points out, this cannot be the same fungus as that described by Cunningham (1965 p. 97) under his new combination *Trichaptum venustum* (Berk.) G. H. Cunningham. Ryvarden (1977 p. 227) treats it as a synonym of *Trametes versatilis* under which he includes *Trichaptum byssogenum* (Jungh.) Ryvarden.

 Polyporus vaporarius Fr., Syst. mycol. 1: 382 (1821); Decade 5/sub 43.

Current name: *Poria versipora* (Pers.) Romell, Svensk Botanisk Tidskrift 20: 15 (1962).

Notes: Cunningham (1965 p. 64) recognises it as being *Poria* versipora (Pers.) Romell.

 Polyporus vaporarius Fr., Syst. mycol. 1: 382 (1821); Decade 5/sub 43.

Current name: Poria sp.

Notes: This is different from No. 136, but devoid of characters that would enable it to be identified as any particular species of *Poria*.

- 138. Hydnum investiens Berk., Lond. J. Bot. 4: 57 (1845); Decade 5/45. Current name: As above.
- 139. "Beautiful purple when fresh, with a distinct white margin" Drummond (1843). This description would fit the cosmopolitan Lopharia crassa (Lév.) Boidin but no Drummond specimen is extant by which this diagnosis could be confirmed.
- 140. Not represented.
- Polyporus (Apus) compressus Berk., Lond. J. Bot. 4: 53 (1845);
 Decade 6/39.
 Current name: Truncospora ochroleuca (Berk.) Pilát in Atlas Champ. Eur. 3: 365 (1941).
 Notes: With No. 248 and No. 285 is Polyporus ochroleucus Berk. (Ryvarden 1977 p. 218), placed in Perenniporia by Ryvarden.
- 142. Polyporus (Apus) portentosus (Berk.), Lond. J. Bot. 3: 188 (1844); Decade 4/sub 37. Current name: Piptoporus portentosus (Berk.) G. H. Cunningham (1965 p. 106). Notes: As Drummond No. 125.
- 143. Polyporus igniarius Fr., Syst. mycol. 1: 375 (1821); Decade 4/40. Notes: It is doubtful whether this specimen, or No. 146, is the European species *P. igniarius* but, in the absence of an extant specimen, *Phellinus rimosus* (Berk.) Pilát could be suggested as the probable identity (see No. 144 and No. 146).
- Polyporus (Apus) rimosus Berk., Lond. J. Bot. 4: 54 (1845); Decade 4/40.

Current name: Phellinus rimosus (Berk.) Pilát, Annales Mycologici 38: 80 (1940).

Notes: A species of wide distribution including the U.S.A.; see Cunningham (1965 p. 232) and Ryvarden (1977 p. 225).

the same species.

- 145. Trametes pini Fr., Epicr. Syst. mycol. p. 489 (1838); Decade 5/43. Notes: It is doubtful whether this is the Northern Hemisphere T. pini, which has never been collected in the State, but no specimen could be found.
- 146. Polyporus igniarius Fr., Syst. mycol. 1: 375 (1821); Decade 4/40. Notes: Drummond (1843) "on Manglesia drummondii", a species of Beaufortia, a Bottle Brush. See comments under No. 143.
- 147. Polyporus feei Fr. /Polyporus lilacino-gilvus Berk., Ann. nat. Hist. 3:324 (1839); Decade 5/sub 41. Current name: Trametes lilacino-gilva (Berk.) Lloyd, Synopsis of the genus Fomes p. 226 (1915). Notes: "Beautiful and very rare" Drummond (1843). The fungus is by no means rare in the coastal districts. Polyporus feei is a form of
- 148. Polyporus cinnabarinus Fr., Syst. mycol. 1: 371 (1821); Decade 5/41.

Current name: *Pycnoporus coccineus* (Fr.) Bond. & Singer, Ann. Mycol. 39: 59 (1941).

Notes: "Very common but very beautiful, supposed to be cinnabarina" Drummond (1843). Nobles & Frew (1962 p. 987) indicate *P. cinnabarinus* to be only Northern Hemisphere, and *P. coccineus* to be Southern Hemisphere temperate.

149a. Polyporus gryphaeaeformis Berk., Lond. J. Bot. 4: 54 (1845); Decade 5/41.

Current name: Polyporus gryphaeiformis Berk.

Notes: The current name is spelt 'gryphaeiformis' in accordance with Recommendation 73 b 1 (a) (2) of the International Code of Botanical Nomenclature. Drummond (1843) comments "only one specimen seen and not recent." This specimen is now represented at Kew only by fragments. Saccardo, Syll. Fung. 6: 183 (1888), recombines as Fomes griphaeformis and Ryvarden (1977 p. 221) suggests a Ganoderma from the description. It is associated with Hydnum isidioides.

- 149b. Hydnum isidioides Berk., Lond. J. Bot. 4: 58 (1845); Decade 5/47. Current name: Sarcodontia isidioides (Berk.) Reid (1965 p. 641). Notes: On hymenium of Polyporus gryphaeiformis. Reid (1956 p. 641), puts it in the genus Sarcodontia.
- 150. Polyporus (Apus) demissus Berk., Lond. J. Bot. 4: 52 (1845); Decade 4/37.

Current name: *Bjerkandera fumosa* (Fr.) Karsten, Medd. Soc. Fauna Fl. Fenn. 5: 38 (1879).

Notes: The type, according to Ryvarden (1977 p. 219), represents Bierkandera fumosa.

Hexagonia decipiens Berk., Lond. J. Bot. 4: 57 (1845); Decade 5/44.
 Current name: Phaeotrametes decipiens (Berk.) Wright (1966 p. 532).

Notes: As 152. The specific epithet was lost when Cunningham placed it into *Trametes*, the epithet *decipiens* being preoccupied. He named it *Trametes drummondii*. Wright (1966) made it the type of the widespread Southern Hemisphere species *Phaeotrametes decipiens*. This is accepted by Ryvarden (1977 p. 215).

- 152. Hexagonia decipiens Berk., Lond. J. Bot. 4:57 (1845); Decade 5/44. Current name: Phaeotrametes decipiens (Berk.) Wright. Notes: As 151.
- 153. Hexagonia gunnii Berk., Ann. Nat. Hist. 7: 452 (1841); Decade 5/sub 44. Current name: Hexagonia vesparius (Berk.) Ryvarden, Kew Bull. 31:83 (1976).

Notes: Ryvarden points out that gunnii was a superfluous epithet

with which Berkeley had replaced vesparius.

154. Polyporus varius Fr., Syst. mycol. 1: 352 (1821); Decade 4/sub 36. Notes: Drummond (1843) "this specimen is the only one found on the flooded gum". There is now no specimen at Kew, but Ryvarden (1978 p. 390) states that the species is widespread in the temperate region both in the Northern and Southern Hemisphere.

155. Boletus marginatus Drumm. ex Berk., Lond. J. Bot. 4: 50 (1845);

Decade 4/33.

Current name: Phaeogyroporus portentosus (Berk. & Broome)

McNabb, N.Z. J. Bot. 6: 142 (1968).

Notes: "... the Boletus Marginatus is nearly allied to the Esculent Boleti, five or six species of which are used as food by the natives ..." Sketch on p. 20 annotated: "Pileus and stem black. Pores brown with a distinct margin by the projection of the cuticle" Drummond (1843). Spores of the Kew specimen measure 7-9 x 5-6.5 µm. The accompanying specimen in the folder at Kew is from Melbourne, dated 27/5/1889, and presumably the basis of McAlpine's 1895 record, is certainly not this species. Spore-size, colouration of specimen, and the sketch in Drummond's letter, all point to it being Phaeogyroporus portentosus.

156. Boletus alliciens Berk., Lond. J. Bot. 4: 50 (1845); Decade 4/34.

Current name: As above.

Notes: Drummond states that this was one of the species eaten by aborigines and went (with other species?) under the name "woorda". There is neither specimen nor catalogue number at Kew. The description is inadequate to equate it with any of the many boletes collected since.

Polyporus (Mesopus) oblectans Berk., Lond. J. Bot. 4: 51 (1845);
 Decade 4/35.

Current name: Coltricia cinnamomea (Pers.) Murrill, Bull. Torrey Bot. Cl. 31: 343 (1904).

Notes: As 220. Ryvarden (1977 p. 223) disagreed with Cunningham (1965 p. 191) and accepted this as the species *C. cinnamomea*, with which he was fully familiar from work with European collections.

Stereum illudens Berk., Lond. J. Bot. 4: 59 (1845); Decade 5/48.
 Current name: Xylobolus illudens (Berk.) Boidin, Revue Mycol. 23: 341 (1958).

Notes: "Very common on all sorts of dead wood." Drummond (1843). It is also common in eastern Australia and in New Zealand. The species remains as *Stereum* in Cunningham (1963).

Stereum hirsutum Fr., Syst. mycol. 1: 439 (1821); Decade 5/sub 48.
 Current name: As above.

Notes: "Of a beautiful golden yellow when fresh, very rare, seen only on one tree, perhaps a variety of 158" Drummond (1843). As part of No. 208.

- 160. Corticium vinosum Berk., Lond. J. Bot. 4: 60 (1845); Decade 6/51. Current name: Lopharia crassa (Lév.) Boidin, Bull. trimest. Soc. mycol. Fr. 74: 479 (1958). Notes: The type was filed at Kew under Hymenochaete vinosum (Berk.) Cooke. Cunningham (1963) takes it as synonymous with the cosmopolitan Lopharia crassa.
- 161. Stereum rubiginosum Fr., Syst. mycol. 1: 346 (1821); Decade 5/sub 48.
 Current name: Hymenochaete rubiginosa (Fr.) Lév., Ann. Sci. Nat. Bot. Ser. 3, 5: 151 (1846).
 Notes: "Rich brown velvet-like border, as far as I have observed
 - Notes: "Rich brown velvet-like border, as far as I have of always fixed" Drummond (1843).
- Corticium radicale Berk., Lond. J. Bot. 4: 59 (1845); Decade 5/50.
 Current name: Steccherinum ochraceum (Pers.) Gray, Nat. Arr. Br. Pl. 1: 651 (1821).
 Notes: Cunningham (1963 p. 339) recognised the type specimen to be the widespread species Steccherinum ochraceum.
- 163. Auricularia minuta Berk., Lond. J. Bot. 4: 59 (1845); Decade 5/49. Current name: As above. Notes: As Lowy (1952 p. 686) suggests, this species is doubtfully an Auricularia but in the absence of spores on the specimen, and of recollection, the name must stand.
- 164. Not represented.
- Corticium incarnatum Fr., Epicr. Syst. mycol. p. 564 (1838); Decade 6/sub 51.
 Current name: Peniophora incarnata (Fr.) Karsten, Hedwigia 28: 27 (1889).
- 166. Mycenastrum phaeotrichum Berk., Lond. J. Bot. 2: 518 (1843); Decade 6/60. Current name: Mycenastrum corium (Guersent) Desvaux, Ann. Sci. Nat. II 17: 147 (1842).
- 167. Bovista lilacina Mont. & Berk., Lond. J. Bot. 4: 64 (1845); Decade 6/59.
 Current name: Calvatia lilacina (Berk.) P. Henn., Hedwigia 43: 205 (1904).
 Notes: Cunningham (1944) places as Calvatia lilacina, a widespread species which Dring (1964 p. 38) puts in C. cyathiformis ssp. fragilis.
- 168. Scleroderma geaster Fr., Syst. mycol. 3: 46 (1829); Decade 6/sub 60. Notes: The Drummond specimen was not found at Kew, but in Cunningham (1944 p. 118) the only Australian record of this species is from W. Australia.
- 169. Scleroderma vulgare Fr., Syst. mycol. 3: 46 (1829); Decade 6/60. Notes: Scleroderma vulgare is based on a mixed collection according to Cunningham (1944 p. 216) but there is no surviving specimen at Kew to decide the identity of Drummond's fungus.
- 170. Polysaccum pisocarpium Fr., Syst. mycol. 3: 54 (1829); Decade 6/sub 60.
 Notes: A "curious Lycoperdon composed of many small globose or irregularly shaped bodies" Drummond, 1843. This would be Pisolithus tinctorius, but no specimen is extant.

 Polysaccum crassipes DC. var. australe Lév., Fragm. Mycol. p. 136, together with Polysaccum turgidum Fr., Syst. mycol. 3: 53 (1829); Decade 6/60.

Notes: Drummond's (1843) comment on 170 applies to 171 as well. Both would be forms of *Pisolithus tinctorius*, but this cannot be confirmed in the absence of an extant specimen.

172. Lycoperdon gemmatum Fr., Syst. mycol. 3: 36 (1829); Decade 6/sub 60.

Notes: As No. 250. Specimen No. 172 was not found in Kew Herbarium; the species *L. gemmatum* is classified there as *Lycoperdon pusillum* Pers.

Geaster striatus DC., Fl. fr. 2, p. 267 (1815); Decade 6/sub 57.
 Current name: Geastrum pectinatum Pers., Synop. method. Fung. p. 132 (1801).

Notes: "A large 3-coated species of the curious star-like fungus I sent you in the box by the Houghton Le Skerne." Drummond (1843), referring to an earlier shipment of fungi. Geastrum striatum (DC.) Fr. = G. pectinatum Pers. following Cunningham (1944 p. 162).

 Geaster rufescens Pers., Synopsis Fung. 134 (1801); Decade 6/sub 58.

Current name: Geastrum simulans Lloyd p. 17 (1905).

Notes: "A species of the same genus (as 173) without teeth" Drummond (1843). Discussed by Lloyd (op. cit.) and made the type of a new species.

175. Geaster minimus Schwein., Schrift. Naturf. Ges. Leipzig 1: 166 (1822); Decade 6/57.
Current name: Geastrum minimum Schwein.

Notes: A cosmopolitan species described by Dring (1964 p. 26).

Clathrus pusillus Berk., Lond. J. Bot. 4: 67 (1845); Decade 7/65.
 Current name: As above.
 Notes: Cunningham (1944) reports from other Australian States,

Dring & Rose (1977 p. 747), from W. Africa. 177. *Ileodictyon gracile* Berk., Lond. J. Bot. 4: 69 (1845); Decade 7/66.

Current Name: As above.

Notes: Cunningham (1944 p. 111) names as Clathrus gracilis (Berk.) Schlechtendal. Dring & Rose (1977 p. 748) report from places on the Atlantic coasts of Europe and Africa; they retain the name Ileodictyon gracile Berk.

Phallus curtus Berk., Lond. J. Bot. 4: 69 (1845); Decade 7/67.
 Current name: Mutinus curtus (Berk.) Fischer, Syll. Fung. 7: 13 (1888).

Notes: Cunningham (1944 p. 91) records it as occurring elsewhere in Australia. No. 272c is another collection.

179. Tulostoma fimbriatum Fr., Syst. mycol. 3: 43 (1829); Decade 6/sub 60.

Current name: Tulostoma australianum Lloyd ex G. H. Cunningham, Proc. Linn. Soc. N.S.W. 50: 256 (1925).

Notes: Cunningham (1944 p. 216) considered the record might have been of *T. obesum*, but had not seen the specimen. Dring had annotated the specimen sheet at Kew: *Tulostoma australianum* Lloyd ex. G. H. Cunningham.

180. Secotium melanosporum Berk., Lond. J. Bot. 4: 62 (1845); Decade 6/56.

Current name: Endoptychum melanosporum (Berk.) Singer & Smith, Brittonia 10: 220 (1958).

Notes: Cunningham (1944 p. 83) accepts as a good species and records in addition for S. Australia and N.S.W.

 Secotium coarctatum Berk., Lond. J. Bot. 4: 63 (1845); Decade 6/57.

Current name: As above.

Notes: "It has a very strong peculiar smell which it loses when dry" Drummond (1843). Cunningham (1944 p. 82) records for S. Australia, N.S.W., and Tasmania, and accepts it as Secotium.

Mitremyces luridus Berk., Lond. J. Bot. 4:182 (1845); Decade 7/61.
 Current name: Calostoma luridum (Berk.) Massee, Ann. Bot. 2: 43 (1888).

Notes: "A curious little plant; I scarcely know whether it belongs to fungi, or lichenes. It grows on sand and appears like a *Tremella* or gelatinous lichen..." Drummond (1843). Drummond's comment draws attenton to the gelatinous base. Cunningham (1944 p. 114) equates it with *C. fuscum*, but 182 is a smaller species, with smaller spores and no red peristome, so the name accepted by Massee should stand.

Peziza drummondii Berk., Lond. J. Bot. 4: 71 (1845); Decade 7/69.
 Current name: As above.

Notes: Rifai (1968 p. 277) suggests that this may have to be made the type species of a new genus in the Sarcoscyphaceae when freshly collected specimens become available to supplement the inadequate existing material.

184. Not represented.

185. Sphaeria rosella Albertini & Schweinitz, Cons. Fung. p. 38 (1805); Decade 8/sub 71.

Current name: Hypomyces rosellus (Alb. & Schw.) Tulasne, Sel. Fung. Carpol. 3: 45 (1865).

Notes: The specimen at Kew now shows little more than the wine red mycelium on a substratum of charcoal.

186. Peziza applanata Fr., Syst. mycol. 2: 64 (1822); Decade 7/sub 69. Notes: Rifai (1968) does not mention this species and the voucher specimen could not be found at Kew.

187. *Šphaeria punctata* Fr., Syst. mycol. 2: 330 (1823); Decade 7/sub 69. Current name: *Poronia punctata* (Fr.) Fr., Summa veg. Scand. 382 (1849).

Notes: This is a distinctive fungus on Kangaroo (and other) dung.

188. Licea applanata Berk., Lond. J. Bot. 4: 67 (1845); Decade 7/64. Current name: Dictydiaethalium plumbeum (Schum.) Rost., in Lister, Mycetozoa p. 197 (1894). Notes: Martin & Alexopoulos (1969 p. 60) cite as this cosmopolitan

species.

Peziza melaloma Alb. & Schw. ex Fr., Syst. mycol. 2: 68 (1822);
 Decade 7/sub 69.

Current name: Antracobia melaloma (Fr.) Boudier, Host. Class. Discom. d'Europe p. 65 (1907).

Notes: Rifai (1968 p. 142) states that the identity cannot be confirmed because of the absence of colour annotation.

- 190. Peziza rutilans Fr., Syst. mycol. 2: 68 (1822); Decade 7/sub 69.
 Current name: Leocoscypha rutilans (Fr.) Dennis & Rifai in Rifai p. 164 (1968).
 Notes: Rifai (1968 p. 165) comments that there are now no apothecia, but that the specimen is probably a Leucoscypha.
- 191. Not represented.
- 192. Antennaria scoriadea Berk. ined.; Decade 7/sub 68.
 Current name: Capnodium scoriadeum (Berk.) v. Höhnel, Sitzung. keiserl. Akad. Wiss. Wien 118: 32 (1909).
 Notes: The name was subsequently published by Berkeley, based on a specimen from Auckland Is., in Hooker's Flora Antarctica 1:175 (1847). The type is to be found at Kew, but not Drummond No. 192 (which was associated with Fusarium lateritium).
- 193. Tremella mesenterica Fr., Syst. mycol. 2: 214 (1822); Decade 6/sub 54.
 Current name: As above.
 Notes: The original record for Western Australia of this common species.
- 194. Exidia glandulosa Fr., Syst. mycol. 2: 224 (1822); Decade 6/54. Current name: As above.
 Notes: As part of No. 123, but neither number was found at Kew; a cosmopolitan and frequently collected species.
- 195 and 196. Not represented.
- Clavaria botrytis Pers. ex Fr., Syst. mycol. 1: 466 (1821); Decade 6/sub 53.
 Current name; Ramaria botrytoides (Peck) Corner, Ann. Bot. Memoirs 1: 562 (1950).
- 198. Clavaria, disposed at Kew as Clavaria botrytis, hence Ramaria botrytoides (Peck) Corner—see No. 197.
- 199. Clavaria setulosa Berk., Lond. J. Bot. 4: 61 (1845); Decade 6/53. Current name: Clavulina setulosa (Berk.) Corner, Beihefte Nova Hedwigia No. 33 (1970).
 Notes: Corner (1950 p. 716) gives as Lachnocladium setulosum (Berk.) Lév., as in Saccardo, Syll. Fung. 6: 740, a species still only known from this one Western Australian collection.
- 200. Thelephora caryophyllaea Fr., Syst. mycol. 1: 430 (1821); Decade 5/47.
 Current name: Thelephora terrestris Fr., Syst. mycol. 1: 431 (1821).
 Notes: Cunningham (1963 p. 229) points out that T. caryophyllaea is a form name for T. terrestris. This therefore becomes the original record for Western Australia of the common species Thelephora terrestris Fr.
- Sphaeria rubricosa Fr., Elench. fung. 2: 63 (1828); Decade 7/69.
 Current name: Valsaria rubricosa (Fr.) Sacc., Syll. Fung. 1: 743 (1882).
- 202. Lycogala epidendrum Fr., Syst. mycol. 3: 80 (1829); Decade 7/sub 61.
 Current name: As above.
 Notes: A cosmopolitan species.
- 203. Not represented.

 Calocera guepiniodes Berk., Lond. J. Bot. 4: 61 (1845); Decade 6/54.

Current name: As above.

Notes: McNabb (1965a p. 38) stated that it appears to be confined to Australia and New Zealand.

 Guepinia pezizaeformis Berk., Lond. J. Bot. 4: 60 (1845); Decade 6/5.

Current name: Heterotextus peziziformis (Berk.) Lloyd, Mycol. Notes 67: 1149.

Notes: Since found elsewhere in Australia, New Zealand and Argentina. McNabb (1965b p. 219) accepted this as a good species.

Not represented.

207. Hydnum dispersum Berk., Lond. J. Bot. 4: 58 (1845); Decade 5/46. Current name: As above.

Notes: There has been no further record, or revision, of this species.

208a. Stereum hirsutum (Willd.) Pers. ex Gray, Nat. Arr. Br. Pl. 1: 652 (1821); Decade 5/sub 48.

Current name: As above.

Notes: As No. 159.

208b. Physarum flavicomum Berk., Lond. J. Bot. 4: 66 (1845), Decade 7/63.

Current name: As above.

Notes: Martin & Alexopoulos (1969 p. 301) accept the species, although citing the type locality, in error, as New South Wales.

Stemonitis fusca Roth, Mag. Bot. Römer & Usteri 1 (2): 26 (1787);
 Decade 7/sub 63.

Current name: As above.

Notes: As No. 272 in part. A cosmopolitan species.

210. Peziza cochleata Fr. form; Decade 7/sub 69. Notes: Rifai (1968 p. 224) says that the true identity of P. cochleata is open to question. He does not mention the Drummond specimen.

211. Not represented.

212a. Dacrymyces rubro-fuscus Berk., Lond. J. Bot. 4: 61 (1845); Decade 6/55.

Current name: Sirobasidium sanguineum Lagerh. & Pat., J. Bot., Paris 6: 467 (1892).

Notes: As No. 225 in part. McNabb (1973) refers to the type as being immature but appearing typical of *Sirobasidium sanguineum* Lagerh. & Pat.

212b. Trichoderma viride Pers. ex Fr., Syst. mycol. 3: 215 (1829); Decade 7/sub 67.

Current name: As above.

Notes: A universal soil mould.

212c. Sphaeria β media Pers. ex Fr., Syst. mycol. 2: 470 (1823); Decade 8/sub 72.

Notes: The specimen is not extant for examination.

212d. Sphaeria inspersa Berk., Lond. J. Bot. 4: 299 (1845); Decade 8/73. Current name: Rosellinia inspersa (Berk.) Sacc., Syll. Fung. 1: 265 (1882).

213 and 214. Not represented.

- 215. Excipula strigosa Fr., Syst. mycol. 2: 103 (1822); Decade 7/sub 67. Current name: Dinemasporium strigosum (Fr.) Sacc., Syll. Fung. 3: 683.
- 216 and 217. Not represented.
- 218. Sphaeria (Lignosae) capnodes Berk., Lond. J. Bot. 4: 72 (1845); Decade 7/70. Current name: Hypoxylon serpens (Pers.) Fr., Summ. Veg. Scand. p. 384 (1846). Notes: Listed in Miller (1961 p. 277).
- 219. Not represented.
- Polyporus (Mesopus) cladonia Berk., Lond. J. Bot. 4: 51 (1845);
 Decade 4/36.
 Current name: Coltricia cinnamomea (Pers.) Murrill.
 Notes: As 157. As determined by Ryvarden (1977 p. 218) from the Kew specimen.
- 221. Agaricus (Mycena) crinalis Berk., Lond. J. Bot. 4: 44 (1845); Decade 3/24.
 Current name: As above.
 Notes: This remains a species neither re-classified nor recorded again.
- 222 and 223. Not represented.
- 224. Agaricus applicatus Batsch. ex Fr., Hymen. Eur. p. 180 (1874); Decade 3/sub 25. Current name: Resupinatus applicatus (Batsch. ex Fr.) S. F. Gray, Nat. Arr. Br. Pl. 1: 617 (1821). Notes: The same species as No. 286.
- 225a. Dacrymyces rubro-fuscus Berk., London. J. Bot. 4: 61 (1845); Decade 6/55.
 Current name: Sirobasidium sanguineum Lagerh. & Pat.
 Notes: As 212a.
- 225b. Sepedonium chrysospermum Link. ex Fr., Syst. mycol. 3: 438 (1832); Decade 7/67.
 Current name: As above.
 Notes: A common parasite of Boletaceae.
- 225c. Sphaeria multiformis Fr., Syst. mycol. 2: 334 (1823); Decade 7/sub 69.
 Current name: Hypoxylon multiforme (Fr.) Fr., Summ. veg. Scand. p. 384 (1846).
 Notes: This is recognised as a good species in Miller (1961).
- 225d. Sphaeria elevata Berk., Lond. J. Bot. 4: 298 (1845); Decade 8/71. Current name: Cryptovalsa elevata (Berk.) Sacc., Syll. Fung. 1: 191 (1882). Notes: This is listed in Saccardo with type locality in error as Tasmania.
- 225e. Sphaeria pulvinulus Berk., Lond. J. Bot. 4: 299 (1845); Decade 8/72.
 Current name: Pleosphaeria pulvinulus (Berk.) Sacc., Syll. Fung. 2: 305 (1883).
 Notes: With Sphaeria sanguinea Sibth. Not found at Kew.

- 225f. Hysterium elongatum Wahlenberg ex Fr., Syst. mycol. 2: 581 (1822); Decade 8/sub 73.
 - Current name: Hysterographium elongatum (Fr.) Corda, Icon. fung. I p. 77 (1837).
 - Notes: Zogg (1943 p. 310) recognises this as a valid species.
- 226. Not represented at Kew. "Found by the sides of pools of water, it has branches and perhaps roots like a conferta . . . I do not know natural order; something in common with 176." Drummond (1843).
- 227. Not represented.
- 228. Cyathus vernicosus DC., Fl. fr. 2, p. 270 (1815); Decade 7/sub 64. Current name: Cyathus olla Pers., Syn. meth. Fung. 237 (1801). Notes: Cunningham (1944 p. 206), gives the synonymy with Cyathus olla Pers.
- 229. Agaricus lanuginosus Fr., Syst. mycol. 1: 257 (1821) (non Bull.); Decade 3/sub 27. Current name: Inocybe lanuginosa (Fr.) Sacc., Syll. Fung. 5: 765 (1887).
- 230-246. Not represented.
- 247. Polyporus gilvus Schwein. ex Fr., Elench. fung. 1: 104 (1828); Decade 4/36.
 Current name: Phellinus gilvus (Schwein. ex Fr.) Pat., Essai

Hymén. p. 97 (1900). Notes: Cunningham (1950 p. 227) did not find the Drummond specimen at Kew and it appears to be missing. As No. 278, a cosmopolitan species.

- Polyporus (Apus) ochroleucus Berk., Lond. J. Bot. 4: 53 (1845);
 Decade 4/38.
 Current name: Truncospora ochroleuca (Berk.) Pilát.
 Notes: As for No. 285 and No. 141.
- 249. Merulius corium Fr., Elench. fung. 1: 58 (1828); Decade 5/44. Current name: As above. Notes: The same species as No. 253.
- Lycoperdon gemmatum Fr., Syst. mycol. 3: 36 (1829); Decade 6/60.
 Notes: Not found at Kew but the species L. gemmatum is classified there as Lycoperdon pusillum Pers., as No. 172.
- 251. Not represented.
- 252. Not represented at Kew "So rare to the east of the Darling range: I find is not uncommon on Eucalyptus occidentalis near Perth" Drummond (1843). Eucalyptus occidentalis is the flat-topped Yate, and clearly the reference is to a wood-attacking fungus.
- 253. Merulius corium Fr., Elench. fung. 1: 58 (1828). Current name: As above. Notes: The same species as No. 249.
- 254-258. Not represented.
- 259. Craterium pedunculatum Trent. in Roth, Catalecta Bot. 1: 224 (1797); Decade 7/63.

Current name: Craterium minutum (Leers) Fr., Syst. mycol. 3: 151 (1829).

Notes: Martin & Alexopoulos (1969 p. 272) cite a wide distribution and equate with *Craterium minutum* (Leers) Fr.

260 and 261. Not represented.

262. Myriangium montagnei Berk., Lond. J. Bot. 4: 73 (1845). Current name: As above.

Notes: A different species from the worldwide scale insect parasite *M. duriaei* Mont. & Berk., which was supposedly collected by Drummond at the same time. Both Drummond's collections, and subsequent collections elsewhere in Australia and New Zealand are *Myriangium montagnei* Berk., vide Petch (1924 p. 45).

263. Didymium scrobiculatum Berk., Lond. J. Bot. 4: 66 (1845); Decade 7/62.

Current name: Physarum cinereum (Batsch.) Pers., Neues Mag. Bot. 1: 89 (1794).

Notes: "Appears to be a species of (? Zygodon) different from the common sort" Drummond (1843). Martin & Alexopoulos (1969 p. 291) equate it with the cosmopolitan species *Physarum cinereum*.

- 264-268. Not represented.
- 269. Merulius lacrymans Fr., Syst. mycol. 1: 328 (1821); Decade 5/44. Current name: Serpula lacrymans Gray, Nat. Arr. Br. Pl. 1: 637 (1821).
 Notes: On decayed wood. The fungus has not subsequently been manufal from W. Australia areas as a super of Dry Ret in heild.

recorded from W. Australia, even as a cause of Dry Rot in buildings. The Kew specimen is not inconsistent with the forest species Serpula himantioides (Fr.) G. Cunn.

270. Mystrosporium pulchrum Berk. & Corda, Lond. J. Bot. 4: 70 (1845); Decade 7/68.
Current name: Helicorhoidion pulchrum (Berk. & Corda) Hughes, Canad. J. Bot. 36: 773 (1958).
Notes: Illustrated by Ellis (1971 p. 217).

- 271. Not represented.
- 272a. Agaricus mollis Fr.; Decade 3/29.

Current name: Crepidotus uber (Berk. & Curt.) Sacc.

Notes: As No. 129.

272b. Stemonitis fusca Roth; Decade 7/sub 63.

Current name: As above.

Notes: As No. 209.

272c. Phallus curtus Berk., Lond. J. Bot. 4: 69 (1845).

Current name: Mutinus curtus (Berk.) Fischer.

Notes: Preserved at Kew with the type (No. 178).

Possibly an error for 273 or other missing number.

- 273-277. Not represented.
- Polyporus gilvus Schwein. ex Fr., Elench. fung. 1: 104 (1828); Decade 4/36.

Current name: Phellinus gilvus (Schwein. ex Fr.) Pat.

Notes: Cunningham did not find the specimen at Kew and it appears to be missing. As No. 247, a cosmopolitan species.

- 279. Not represented.
- Schizophyllum commune Fr., Syst. mycol. 1: 330 (1821); Decade 4/sub 32.

Current name: As above.

Notes: Specimen 133 was doubtless the same species.

281. Stereum purpureum Fr., Epicr. Syst. mycol. p. 548 (1838); Decade 5/sub 48.

Current name: Chondrostereum purpureum (Fr.) Pouzar, Ceska Mykol. 13: 18 (1959).

Notes: This remains the only record for the State of the fungus *Chondrostereum purpureum* (Fr.) Pouzar, but the Drummond specimen at Kew could not be located for verification.

A disease with which this fungus is associated, Silver Leaf Disease of plum, has not been recorded in Western Australia.

282a. Physarum flavicomum Berk.

Current name: As above.

Notes: As No. 208, the type.

282b. Physarum nutans Pers., Am. Bot. Usteri 15: 6 (1795); Decade 7/sub

Current name: As above.

Notes: Not found at Kew.

282c. Arcyria incarnata (Pers.) Pers., Observationes mycol. 1: 58 (1796); Decade 7/sub 63.

Current name: As above.

 Polyporus isidioides Berk., Lond. J. Bot. 2: 515 (1843); Decade 4/36.

Current name: As above.

Notes: "Very nearly allied to 247 but the border is thicker and the fungus distinctly zoned" Drummond (1843). The specimen was found neither during the present study nor by Cunningham (1950).

284. "Also (with 283) a nearly allied species (to 247) but apparently distinct" Drummond (1843). No specimen reached Kew.

285. Polyporus (Apus) ochroleucus Berk., Lond. J. Bot. 4: 53 (1845); Decade 4/38.

Current name: Truncospora ochroleuca (Berk.) Pilát.

Notes: As No. 248 and No. 141.

286. Agaricus applicatus Batsch. ex Fr., Hymen. Eur. 180 (1874); Decade 3/sub 25.

Current name: Resupinatus applicatus (Batsch. ex Fr.) S. F. Gray. Notes: The same species as No. 224.

287-295. Not represented.

296. Agaricus mollis Fr.; Decade 3/sub 29. Current name: Crepidotus uber (Berk. & Curt.) Sacc. Notes: As No. 129 and No. 272a.

297. Not represented.

298. "Appears to be the same as 158" Drummond (1843). It is likely to have been therefore another collection of *Stereum illudens* Berk., but no specimen exists by which this could be confirmed.

Agaricus (Crepidotus) lepton Berk., Lond. J. Bot. 4: 46 (1845); Decade 3/29.

Current name: Crepidotus lepton (Berk.) Sacc., Syll. Fung. 5: 885 (1887).

Notes: Accepted by Pilát (1950 p. 226), and Pegler (1965 p. 338) despite his finding the spores to be smaller than those quoted. There have been no further records.

300. "A curious plumose little plant which grows among a brown conferva-like substance on limestone rocks near Perth" Drummond (1843). No specimen survived to reach Kew.

s.n. Agaricus fibula Fr., Syst. mycol. 1: 163 (1821); Decade 3/sub 24. Current name: Mycena fibula (Fr.) Kühner, Encyc. Myc. 10: 607 (1938).

Notes: Once put in Omphalia, now Mycena.

s.n. Agaricus chioneus Pers. ex Fr., Hymen. Eur. p. 81 (1874); Decade 3/sub 25.

Current name: Pleurotellus chioneus (Fr.) Kühner, Botaniste 17: 114 (1926).

Notes: The Kew specimen is well preserved and is on a piece of cattle dung.

s.n. Polyporus ferruginosus Fr., Syst. mycol. 1: 378 (1821); Decade 5/sub 42.

Current name: Phellinus ferruginosus (Fr.) Pat., Essai taxon. p. 97 (1900).

Notes: Cunningham (1965 p. 215) puts under Fuscoporia punctata, but Ryvarden (1978 p. 337) follows Patouillard in recombining as the European species Phellinus ferruginosus.

s.n. Corticium incarnatum Fr., Epicr. Syst. mycol. p. 564 (1838); Decade 6/sub 51.

Current name: Peniophora incarnata (Fr.) Karsten.

Notes: As No. 165.

s.n. Corticium comedens Fr., Epicr. Syst. mycol. 565 (1838); Decade 6/sub 51.

Current name: Vuilleminia comedens (Nees ex Fr.) Maire, Bull. Soc. Myc. Fr. 18 supp. p. 81 (1902).

Notes: In Kew as Thelephora comedens Nees.

s.n. Secotium, third species after No. 180 and No. 181; Decade 6/sub 57.

Current name: Endoptychum agaricoides Czerniaiev, Bull. Soc. Imp. Nat. Moscow 18: 148 (1845).

Notes: Secotium agaricoides was subsequently collected by Drummond (see below) and is a common species, but this specimen appears not to have been lodged in the herbarium of either Berkeley or Hooker. Berkeley's reference to "a great delicacy for the table" and to Secotium gueinzii, support the diagnosis of Secotium agaricoides, which is edible when young. The same reference also occurs at the end of Decade Unit 29. It is now placed as Endoptychum agaricoides Czern.

s.n. Hymenogaster fragment.

Notes: Hymenogaster spp. and species of allied genera are now common in W. Australia, but it is impossible to match them as this fragment appears not to have been preserved.

s.n. Geaster drummondii Berk., Lond. J. Bot. 4: 63 (1845); Decade 6/58. Current name: Geastrum drummondii Berk.

Notes: This species has been collected in Africa and other parts of Australia since the original description, and a modern description.

Australia since the original description, and a modern description is in Dring (1964 p. 25). Geastrum is the modern orthographic variant of Geaster.

s.n. Polysaccum crassipes DC. & Desp., Rapp. bot. Fr. 1: 8 (1807). Current name: Pisolithus tinctorius (Mich. ex Pers.) Coker & Couch.

Notes: As 171, the same as, and accompanied by, *Pisolithus tinctorius* (Mich. ex Pers.) Coker & Couch.

s.n. Stilbum erythrocephalum Fr., Syst. mycol. 3: 302 (1832); Decade 7/sub 67.

Current name: Stilbella erythrocephala (Fr.) Lindau, Nat. Pflanzenfam. 1/1: 489 (1900).

Notes: Specimen not found at Kew. A common fungus on dung, now placed in the genus *Stilbella*.

s.n. Peziza scutellata L. ex St.A., Fries, Syst. mycol. 2: 85 (1822); Decade 7/sub 69.

Current name: Scutellinia scutellata (L. ex St.A.) Lambotte, Fl. mycol. Belg. Suppl. 1: 299 (1887).

Notes: A distinctive species, frequently collected. The Swan River collection at Kew lacks data (Rifai 1968 p. 116), but matches Drummond's labels.

s.n. Ascobolus furfuraceus Fr., Syst. mycol. 2: 163 (1823); Decade 7/sub 69.

Current name: As above.

Notes: Rifai (1968 p. 266) reports it on cow dung from Swan River sine dat. Drummond.

s.n. Myriangium duriaei Mont. & Berk., Lond. J. Bot. 4: 73 (1845); Decade 7 supplement.

Current name: Myriangium montagnei Berk.

Notes: Distinct from Myriangium montagnei Berk., No. 262, according to Berkeley but Petch (1924 p. 45) nominates the French specimen as the lectotype of M. duriaei. It is different from the Swan River specimen which is, in fact, M. montagnei.

Specimens sent subsequent to the main collection

Drummond, in an undated note, the script and paper of which match his letter to Hooker of 3rd May, 1848, refers to a consignment of fungi that could not be sent because most had been destroyed by white ants. The surviving specimens must have gone in the next (5th) consignment of plants sent in July 1849 (Erickson 1969 p 168).

Secotium drummondii Berk. ined. No. 32.

Current name: Endoptychum agaricoides Czern., Bull. Soc. Imp. Nat. Moscow 18: 148 (1845).

Notes: The specimen is accompanied by a note in Drummond's handwriting: "this fungus resembles in structure Secotium Coarctatum and the species I have marked in the box Secotium Minutulum but it differs from these in having the pileus permanently attached to the stem the seeds make their escape by the pileus dividing into filaments but the structure of these 3 species when recent is botryoidal not in pores or cells as in Secotium Melanospermum".

This is the type of the doubtful species Chainoderma drummondii Massee, Grevillea 19: 46 (1890). In the type description Massee compares his new genus Chainoderma with Podaxis. This led Morse, in Mycologia 25: 25 (1933), to equate Chainoderma drummondii with depauperate Podaxis forms from Colorado. Cunningham (1944 p. 198) examined the type at Kew and came to a similar conclusion: that it was a form of Podaxis pistillaris. However, a re-examination of the type made in the course of the present study showed the spores to be unlike Podaxis and to correspond with those of Endoptychum agaricoides. Support for this diagnosis comes from the presence in the Endoptychum folder of a specimen labelled Swan River No. 32, 1849, identical with the type specimen of Chainoderma drummondii.

One can conclude that No. 32 is Endoptychum agaricoides Czern.

Secotium coarctatum is Drummond 181, Secotium melanosporum is Drummond 180, but nothing relating to the Secotium minutulum has been found.

Agaricus (Acetabularia) cycnopotamia Berk., J. Linn. Soc. 18: 389 (1881).

Current name: Volvariella cycnopotamia (Berk.) Pegler (1965 p. 329).

Notes: Pegler (op. cit.) comments that this species of Volvariella has pink, subglobose spores 5.5-8 by 4.7-6.5 μ m. These are much smaller than the 13-18 by 8-10.5 μ m of the common V. speciosa var. gloiocephala, with which one might have been tempted to equate this species. The species is much closer to the European V. loveiana and there could be significance in the intimate association between V. cycnopotamia and the Arachnion with which it was collected.

Arachnion drummondii Berk., J. Linn. Soc. 18: 389 (1881).

Current name: As above.

Notes: Cunningham (1944 p. 209) comments that the type is too fragmentary for determination, but Demoulin (on the specimen, 1970) accepts it as a good species with spores rounder, bigger (4.8-4.9-5 μ m) and glebal membranes not so well formed as in A. album.

Acknowledgements

The Director and Staff of the Royal Botanic Gardens, Kew, are thanked for providing study facilities during the last five months of 1979. Especially Dr D. A. Reid, under whose care the Drummond species are held and Miss E. Smith, archives section, who was so helpful in extracting and interpreting the J. Drummond—W. J. Hooker correspondence.

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