

Book reviews

European Boletes: Volume 1

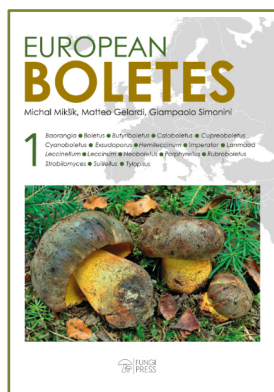
Michal Mikšík, Matteo Gelardi & Giampaolo Simonini

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This mammoth work must surely rank as the most comprehensive review of its subject to date. It runs to over 3 ½ kg, 704 pages, more than 1500 photos and 2000 bibliographic references. The introduction alone, including dichotomous keys to genera and species, occupies a hundred pages. This is an epic work in every sense. Even more so when we remember that this is only volume one, with a second somewhat smaller volume promised. Here, 62 species and 36 forms or varieties in 17 genera are dealt with. These are all the larger red- and yellow-pored genera: *Butyriboletus*, *Boletus* s. str., *Caloboletus*, *Cupreoboletus*, *Cyanoboletus*, *Imperator*, *Neoboletus*, *Rubroboletus* and *Suillellus*, also *Lanmaoa*, *Leccinum*, *Leccinellum*, *Porphyrellum*, *Strobilomyces*, *Tylopilus* and two further genera unknown in Britain.

To give an idea of the coverage of this sumptuous work look no further than the entry for *Boletus edulis*, which spreads lavishly over no less than 20 pages! It includes comprehensive text, well laid out under separate headings. Each entry starts with an extensive description of both macro and micro details, then edibility, ecology, distribution (including map), affinities (similar species), occasionally additional information on variability, and finally notes. We are also treated to literally dozens of excellent high-quality photographs depicting the fungus in all stages of development in different kinds of habitats, in all

kinds of colour forms and varieties, plus photos of microscopic features such as spores. This is a 'no stone left unturned' approach. Take for example the entry for *Neoboletus praestigiator* f. *pseudosulphureus*, basically just a yellow-capped form of what was once *Boletus erythropus*. In most books it would barely get a mention, if any at all. Yet here, even for this obscure colour form, we are treated to an amazing range of 64 fruitbodies in 16 photos spread over eight pages. There is never going to be a better way to understand the variability and look of a species than by flicking through the pages of this book. Most collectors could walk around for an entire mycological lifetime and never manage to see such a diversity of species in such an array of different guises.

For each entry there is an extensive list of synonyms, sometime half a page's worth – nomenclatural research appears to have been thorough. As with all new publications, we are exposed to the latest opinions on the correct names to use. The relatively unfamiliar name *Neoboletus praestigiator* is used here (as in Geoffrey Kibby's *Mushrooms and Toadstools of Britain and Europe*, Volume 1, published in 2017), for what older readers will have known as *Boletus erythropus* and then later as *B. luridiformis*. It is also suggested that we revert to *Leccinum rufum* just when we were getting used to using *L. albstipitatum*, and to *L. aurantiacum* instead of *L. quercinum*. *Boletus aestivalis* is preferred over *B. reticulatus*. No wonder the ecologist Ted Green refers to mycologists as "the name changers".

In a short review, it is impossible to fully convey the vast scope and coverage of this impressive book. It is traditional to try and have a balance of pros and cons, but scrambling around for any cons to this book becomes rather a churlish exercise. With the provisos that you will need to have both the strength to lift a nearly 4 kg book and £98 in ready cash, if you are truly interested in *Boletus*, this is a must have.

In the preface, the authors suggest this book may become an indispensable tool for the study of European boletes, but such is the breadth and depth of this monumental work it is likely to become the *only* tool that will be needed, for years to come. They boldly claim that they aim to provide the most complete and updated overview of European boletes, summarising all current knowledge, and after a considered viewing of this book, it would be hard to imagine anybody who could possibly disagree with them.

Mario Tortelli

***Caloboletus calopus* (Pers.) Vizzini**

Index Fungorum 146: 1 (2014)

- *Boletus calopus* Pers., *Synopsis methodica fungorum*: 513 (1801) [basionym]
- *Sullius calopus* (Pers.) Foetel. in Lamarch, *Encyclopédie méthodique. Botanique* 7: 700 (1806)
- *Boletus subulmatus* subsp. *calopus* (Pers.) Pers., *Mycologia europaea* 2: 139 (1825)
- *Boletus subulmatus* var. *calopus* (Pers.) Duly, *Botanicon gallicum seu synonyma plantarum in flora Gallica* 2 (2nd ed.): 782 (1830)
- *Chrysopus calopus* (Pers.) Quel., *Enchiridion fungorum in Europa media et praesentim in Gallia vigentium*: 160 (1886)
- *Talparius calopus* (Pers.) Rickard, *Vademecum für pilzfressende* 1: 206 (1918)
- *Talparius calopus* (Pers.) Miano, *Publicaciones del Instituto Botánico Barceldna* 3(4): 46 (1937)
- *Boletus tenuis* Schaett., *Fungorum qui in Brevia et Palatinatu circa Ratisbonam nascuntur* 4: 92, t. 315 (1774)
- *Sullius tenuis* (Schaett.) Kuntze, *Revisio generum plantarum* 3(3): 535 (1898)
- *Boletus olivaceus* Schaett., *Fungorum qui in Brevia et Palatinatu circa Ratisbonam nascuntur* 4: 77, t. 105 (1774)
- *Boletus pachypus* var. *olivaceus* (Schaett.) Pers., *Mycologia Europaea* 2: 130 (1825)
- *Chrysopus olivaceus* (Schaett.) Quel., *Enchiridion fungorum in Europa media et praesentim in Gallia vigentium*: 160 (1886)
- *Sullius olivaceus* (Schaett.) Kuntze, *Revisio generum plantarum* 3(3): 536 (1898)
- *Boletus lophos* (J.F. Gmel., *Systema Naturae* 2:2: 1434 (1792)
- *Talparius extensus* Puellet, *Traité des Champignons* 2: 385, *Iconographie des Champignons*, 1808-1835: tav. 179, fig. 1-2 (1793) (=1808)
- *Boletus calopus* var. *refractoriporus* Bertet & Etades [as '*refractoriporus*'], *Documents Mycologiques* 33(121): 61 (2001)
- *Caloboletus calopus* var. *refractoriporus* (Bertet & Etades) Blanco-Dios [as '*refractoriporus*'], *Index Fungorum* 215: 1 (2015)
- *Boletus pachypus* Fr., *Observationes mycologicae* 1: 118 (1815)
- *Boletus roseodimacrus* J. Rhin, *Bulletin de la Société Mycologique de France* 86 (2-4): 246 (1970)
- *Boletus calopus* var. *pachypus* (Fr.) Calzada, *Guía de los Boletos de España y Portugal*: 87 (2007)
- *Caloboletus rose-olivaceus* (J. Rhin) Schönb., *Index Fungorum* 489: 1 (2019)
- *Boletus olivaceo-durus* Dermek, *Časopis Československých houbových* 9(1-2): 4 (1973) [non. inval.]

Description

Pileus: 4–17(–20) cm broad, initially hemispherical, later convex with a slightly involute margin, pubescent at maturity. Surface outside dry, finely tomentose when young, later silky or partly progressively glabrous and smooth, rarely slightly or even deeply cracked in dry weather, slightly sticky when moist, dirty whitish, chamois, whitish grey, grey, grey-olive to brownish grey or even light brown in aged specimens, unchanging to brownish when bruised. **Tubes**: 10–15 mm long at maturity, adhere to slightly emarginate, bright yellow at first, later pale yellow and finally with olive or ochre shades, bluing when injured. **Pores**: small (up to 1 mm wide), rounded when young, later more angular, concolorous with tubes, bluing at first then gradually fading brown. **Spore print**: pale brownish olive. **Stipe**: 5–12(–15) × 1.5–4(–6) cm, ventricose when young, later mostly clavate (often with a strongly enlarged base) or cylindrical, in the upper 1/3 to 1/2 lemon yellow to yellow, mostly carmine or pinkish red in the lower half (rarely lengthwise), reddish tones tending spontaneously to fade in age until they disappear, covered with a well pronounced whitish to pale yellow reticulum, often becoming red in the lower part. **Basal mycelium**: whitish to slightly greyish yellowish or olive-yellow. **Context**: light yellow, yellowish to whitish in the pileus and upper part of the stipe (especially in older specimens), pale brown, sometimes reddish or reddish brown at the base, turning pale blue throughout on exposure. **Odor**: mild, slightly musty, but often with vinegar or vinyl glue-like component. **Taste**: distinct, more or less bitter.

Spores: 11.0–15.0(–16.0) × (4.0–)4.5–5.5(–6.0) μ m, Q=2.2–3.4, ellipsoid to ellipsoid-ellipsoid, smooth, with distinct supralist

depression, slightly thick-walled, with yellowish to yellow-ochre walls in water. **Basidia**: 30–40(–50) × (7.0–)8.0–12(–13) μ m, clavate, 4-spored, rarely 2-spored, hyaline. **Hymenial cystidia**: 25–40(–50) × 8.0–15 μ m, lageniform to clavate, hyaline, thin-walled. **Caulocystidia**: 25–60 × 5.0–12 μ m, cylindrical, lageniform or clavate. **Pileipellis**: a trichoderm consisting of interwoven, cylindrical, septate hyphae, 4.5–10 μ m wide, finely incuturate; terminal elements 5.0–12 μ m wide, clavate. **Stipitipellis**: fertile with caulobasidia, caulocystidia and sporing caulobasidia, cutis type with the transition to trichoderm, with cylindrical 3–8 μ m wide hyphae. **Clamp connections**: absent in all tissues.

Chemical reactions: hyphae of the stipe base context strongly amyloid with Melzer's reagent (Aoyagi 2024).

Edibility

Indigestible because of the bitter taste. The substances responsible for this taste are calopins and cyclocalopins (Helwig et al. 2015).

Ecology

Caloboletus calopus grows locally abundant from June to October (November), mainly in pedemontane and montane coniferous, mixed, and more rarely also pure deciduous forests. It forms ECM association with *Picea abies*, *Pinus sylvestris*, *Abies alba* and *Fagus sylvatica*. Muñoz (2005) and Gali (2013) reported this species in association with *Cottonea ericei*. It is less abundant to rare at lower elevations. It prefers nutrient-poor and acidic soil (Mikš 2017b; Noordeloos et al. 2018).

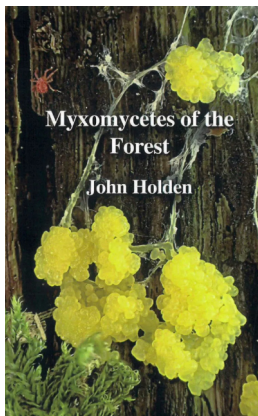


Caloboletus

Myxomycetes of the Forest

John Holden

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 ISBN: 9781036907280
 Hardback 162 pp.
 £29.99 from specialist book sellers



Myxomycetes of the Forest
 John Holden

This informal and charming little book details the author's finds of slime moulds over many years, mainly from the Forest of Dean,

Gloucestershire. The 98 species treated are illustrated with numerous excellent photos, both in the field and under the microscope, including the seldom illustrated immature states, so often met with in the field.

Descriptions are in the form of notes, with discussion on difficult or unusual features. A user-friendly Introduction covers 'What are Slime Moulds?', Ecology of Slime Moulds, Collection and Identification, and Classification. The Index of Species usefully includes synonyms and current names according to <https://nomenclature.mycetozoa.com>.

Note that this is far from a conventional guide to British Myxomycetes. It only covers species the author has personally studied. It is essentially a worked up version of his admirably detailed collection notes. Self-published (help from Geoffrey Kibby is acknowledged), this book enables these notes to reach the wider readership they surely deserve.

This is not a stand-alone identification book: the book contains no keys to species. However, priced at £29.95 it provides a very useful addition to the library of anyone interested in slime moulds and their identification.

Dinah Griffin