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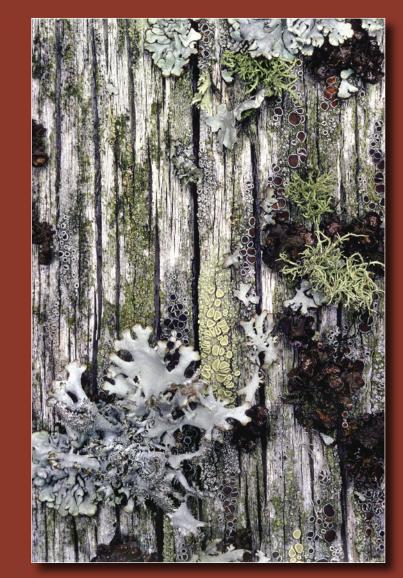
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The Lichens of Great Britain and Ireland

edited by

C.W. Smith, A. Aptroot, B.J. Coppins, A. Fletcher, O.L. Gilbert, P.W. James and P.A. Wolseley



The Lichen Flora of Great Britain and Ireland published in 1992 was an outstanding achievement for British Lichenology. It was a pioneering work and the first of its type in Europe. This much enlarged revision reflects the considerable accumulation of new information that has occurred since the publication of the first edition and is symptomatic of the enormous advances in lichen taxonomy over the last two decades. There are keys to 327 genera and 1873 species, which is an increase of 386 species since it was first published. The publication provides detailed information on morphology, chemistry and distribution for each species written in language that is readily accessible, avoiding obscure terminology. Both the glossary and introductory sections have been expanded and the latter includes helpful advice on the identification and examination of lichens. The preparation of this new treatment has involved a large number of contributors both in the UK and overseas and represents the culmination of lichen studies at this time.

This book is undoubtedly the standard work for the identification of lichens in Great Britain and Ireland and will be indispensable to all serious students of British, Irish and overseas lichenology and other biologists working in related fields of ecology, pollution, chemical and environmental studies.

The British Lichen Society

The British Lichen Society was formed in 1958 to promote and advance all branches of the study of lichens. It was the first society in the world entirely devoted to the study of lichens and has many overseas as well as British members. For further details of the Society see www.theBLS.org.uk or write to The Secretary, The British Lichen Society, Department of Botany The Natural History Museum, Cromwell Road, London SW7 5BD.

The Editors

- Dr Clifford Smith is a Scientific Associate at the Department of Botany, the Natural History Museum, London and at the Department of Botany, University of Hawaii at Manoa, Honolulu
- Dr Andre Aptroot is at ABL Herbarium, Soest, The Netherlands
- Dr Brian Coppins is Principal Scientific Officer at the Royal Botanic Garden Edinburgh
- Dr Anthony Fletcher is Keeper of Natural History at Leicestershire Museums Service
- Dr Oliver Gilbert was formerly Reader in the Department of Landscape Architecture, Sheffield University
- Peter James was formerly Deputy Keeper of Botany at the Natural History Museum, London
- Patricia Wolseley is a Scientific Associate at The Department of Botany, the Natural History Museum, London

almost stalked, sub-globose, c. 1 mm diam.; thalline margin swollen, undulating, smoothly granular like the thallus; disc plane, black, often pruinose. Asci (4-)8-spored; paraphyses moniliform; epithecium olive, N+ green. Ascospores 22-28 × 20-26 µm, globose. Cortex and medulla K-, Pd- (aspicilin). The cortex has been reported to be uniquely C+ white. On flint nodules near the sea coast and on chalk downs; very rare, collected 1846 (S. England, W. Sussex Isle of Wight), rediscovered 1991 (S. Hampshire), Endemic,

Aspicilia

2494

Like an extremely dispersed form of A. caesiocinerea which has a continuous thallus, obscure prothallus and narrower ascospores.

ATLA S. Savić & Tibell (2008) A. Orange

Thallus crustose, immersed, or superficial, granular to areolate. Photobiont Chlorophyceae, or possibly also cyanobacteria in part; hymenial algae absent. Ascomata perithecia, projecting, or immersed in the substratum. Involucrellum absent or well developed. Hamathecium of periphyses and periphysoids, interascal filaments absent; gel hemiamyloid, I+ red (+ blue at very low concentrations of I). K/I+ blue. Asci clavate. K/I-, fissitunicate, wall thickened above wher young. Ascospores (3-)8 per ascus, 63-306 × 30-112 µm, ellipsoid, muriform, colourless to dark brown. Conidiomata unknown. Chemistry: lichen products absent. Ecology: on calcareous rocks and soil. Distribution: 4 species, Europe, Novaya Zemlya.

This genus is well-supported by molecular data, but is difficult to distinguish morphologically from some related genera. Recent authors have treated the species under the genus Polyblastia; see the key under that genus. Literature: Savić & Tibell (2008)

1 Perithecia immersed in the substratum, on soil: involucrellum absent wheldonii Perithecia prominent, on rock; involucrellum present alpina

Thallus superficial, thin and inconspicuous, or well developed and uneven, continuous or cracked, greygreen to pale brown. Perithecia forming hemispherical projections, or strongly projecting, 0.6-1.0 mm diam., black, surface rough, without thalline covering or with at most a very low thalline collar at the base;

involucrellum present, more or less clasping the exciple, or somewhat diverging below. Ascospores dark

A alpina S. Savić & Tibell (2008) Polyblastia theleodes auct. brit. p.p.

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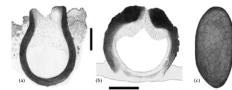


Fig. 23. Cross-section of perithecia and spore of Atla. Perithecia of (a) A. wheldonii, (b) A. alpina c) muriform spore of A. alpina. Scale bars a & b = 300 µm; c = 30 µm.

densely filled with calcium oxalate crystals.

Soredia absent; apothecia present, minute, black, dot-like	circumscrinta
Sclerophyton circumseria	Sorediata
Sclerophyton circumscriptum (Jaylor) Zahlbr. (1905), Sclerophytomyces circumscriptus Sparrius & P. James (2004) Thallus <5 cm diam. but of a c	1319
Thallas <5 cm dimensions/plute Sparine & P. James (2004) thick, surface continuous, tartareous, = finely scarify, finely inregularly transacts composed of , with sav-toe outinuous, tartareous, = finely scarify, finely inregularly transacts composed of , startareous, and the startareous and the start of the start of the start provide start of the start like, often very microson, simicred areas the start of the start of the start like, often very microson, simicred areas the start of the start of the start start of the start of the start start of the start of the start of the start of the start of the start of the start of the start of the start of the start of t	exactly and the set of the set

or under orchnags, with a thin, white, even, mosaic-forming thallus which, when stratched, is orange-or under orchnags, with a thin, white, even, mosaic-forming thallus which, when stratched, is orange-pothecia which become more approach the the thallus becomes pale grave, due to the numerous, tiny, dot-like, criterunseripme community which includes stratomic andlcheri, Clostoman tenerum. Darina massiliensis f. sorredian and in S. England and S. Wales, Limonaea sorediata, Limonaea socopare, is a descentiportes in superficially resembles an *Europapha*, which has colourless ascoopters. See also Arthonia autontica. Hustration: Dotson (2005) p.404 (as Sclerophytonomyces circumscriation) Hlustration: Dobson (2005) p.404 (as Sclerophytonomyces circumscriptum).

P. sorediata (Sparrius, P. James & M.A. Allen) D. Hawksw. (2006)

ŝ &

Sclerophytomyces circumscriptus var. sorediatus Sparrius et al. (2005)

Selecophysionyces cercumscriptits var. soreantino Spai ruis er al. (2005) Thallies up to 5 cm diam, mosaic-forming, findly verrucose, milk-white to grey, 200-300 µm thick, without pruina or densely white pruinose scalia (b.2-2.5 mm diam, irregular in shape, blue-grey or white, often becoming widely confluent, sorchia 20-40 µm diam; protability, stagil private, blue-grey or white, ding to 2 mm widely confluent, sorchia 20-40 µm diam; protability, stagil private complicators, black, up to 2 becoming watery compounds, soretical 20-90 plut treating protein status present, conspictious, mark, up to mm wide; cortex absent but cortical gel present, 20-30 plut thick; medulla cretaceous, milk white, densely



Peteriameri

, uniform. Prothallus \pm well-developed, dark, mosaic-forming. Phycobiont in automa rrounaus z wen-developed, data, mosae rouning, raycououn-led when fresh by the orange colour when scratched. Ascomata apothecia, often forming groups or lines. Thalline excipte absent. True excipte orden forming groups or lines. Thalline exciple absent. True exciple splet, below, the splet below, the splet below and the

Literature: Hawksworth (2006) Sparrius et al. (2005).

a in scierophyun, an onerwise onany contections, nopreal genus and a Enterographa differs in having colourless ascospores and a hypothecium