

BAP Technical Committee: Item 1

Review of work on BAP Priority Lichen Species 2004 -

As amended by Stephen Ward, 8 February 2005 in discussion with Jenny Duckworth, Ray Woods, Marlynn Good, Brian & Sandy Coppins

Species Name	Lead Partner/Contact	Survey/s	References	Comments
<i>Alectoria ochroleuca</i>	RSPB Les Street	Yes	Fryday, A.M. (1999) <i>Action Plans for Lower Plants in Scotland Project. Lichens: Alectoria ochroleuca</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Street L & S. (1999; updated 2001). <i>Lichen species dossier: Alectoria ochroleuca – alpine sulphur tresses</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Street S & L (2004) <i>Meall a'Bhuachaille Alectoria ochroleuca Monitoring Transects</i> . [Report to RSPB].	Awareness leaflet published by RSPB & SNH. Estimate of 250m ² at Meall a'Bhuachaille, its largest UK site
<i>Arthothelium dictyosporum</i>	RBGE Dr Brian Coppins	??	Coppins, A.M. & Coppins, B.J. (2002) <i>Lichen species dossier: Arthothelium dictyosporum</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	Management at Beinn Eighe NNR ravines appropriate for this species
<i>Arthothelium macounii</i>	RBGE Dr Brian Coppins	Yes	Coppins, A.M. & Coppins, B.J. (2002) <i>Lichen species dossier: Arthothelium macounii</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Coppins, A.M. & Coppins, B.J. (2000) <i>Mull: Investigation of selected hazelwoods for the presence of three BAP species - the lichens Arthothelium macounii, Graphis alboscipita, and the fungus Hypocreopsis rhododendri</i> . [Report to Scottish Natural Heritage].	Recent record of this species from Glen Stockdale Hazelwood group joint management plan.

<i>Bacidia incompta</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Orange, A. (1997). <i>A base-line survey of rare lichen species in South Area</i>. (Contract Report FC 73-07-06 to CCW)</p> <p>Coppins, A.M. & Coppins, B.J. (2003) <i>Lichen species dossier: Bacidia incompta</i> - loose mealy-crusted Lecidea. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p> <p>Edwards, B. (2002). <i>The past and present distribution of Bacidia incompta and Caloplaca luteoalba in England</i>. [Back from the Brink Report no. 190. Plantlife, London.].</p> <p>Edwards, B. & Giavarini, V.J. (2003) <i>The current status of Bacidia incompta, Biatoridium monasteriense and Caloplaca luteoalba in England</i>. [Back from the Brink Report no. 220. Plantlife, London.].</p> <p>Giavarini, V.J. (2002) <i>The current status of Bacidia incompta and Biatoridium monasteriense in Wales</i>. [Back from the Brink Report no. 207. Plantlife, London.].</p>	<p>Awareness leaflet on 'elm lichens' to be published during 2005</p> <p>Discovered on a single elm in mid Wales in 1999. All other searches of former sites in Wales have failed to locate this species (RGW pers. Comm.)</p>
<i>Bellemeria alpina</i>	[Species statement only]	Yes	<p>Coppins, A.M. & Coppins, B.J. (2000) <i>Priority Lower Plants Scotland - Lichens - Bellemeria alpina</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p> <p>Street L & S. (2001). <i>Lichen species dossier: Bellemeria alpina - mountain-edge lichen</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	
<i>Belonia calcicola</i>	Plantlife Dr Jenny Duckworth	No	None	<p>Taxonomic review needed of N England specimens.</p> <p>Dedicative survey at Somerset locality needed to refine the species.</p>
<i>Biatoridium monasteriense</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Chambers, S.P. (2003) <i>Species dossiers for the UK BAP lichens Biatoridium monasteriense</i>, <i>Cladonia peziziformis</i>, <i>Graphina pauciloculata</i> and <i>Schismatomma graphidioides</i>. [Report to Countryside council for Wales].</p> <p>Edwards, B. & Giavarini, V.J. (2003). <i>The current status of Bacidia incompta, Biatoridium monasteriense and Caloplaca luteoalba in England</i>. [Back from the Brink Report no. 220. Plantlife, London.].</p> <p>Coppins, A.M. & Coppins, B.J. (2003) <i>Lichen species dossier: Biatoridium monasteriense</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	<p>2004: Refound on an ash tree at Craighall Gorge SSSI, Perthshire, during SCM [report in prep.]</p>

<i>Bryoria smithii</i>	English Nature Peter Lambley	Yes	Coppins, A M & Coppins, B J (2003) <i>Black Tor Copse NNR, cSAC, VC 4, North Devon</i> . [Report for English Nature; F14-01-18].	Recent record from Black Tor Copse on 2 oaks & 4 boulders; see Coppins & Coppins (2003)
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<i>Buellia asterella</i>	English Nature Peter Lambley	Yes	<p>Gilbert, O.L. (1991). <i>Species Recovery Programme: Breckland Lichen Survey 1991</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p> <p>Gilbert, O.L. (1997) <i>Audit of Buellia asterella the Starry Breck Lichen 3-4 October 1997</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p> <p>Gilbert, O.L. (1999) <i>Second Audit of Buellia asterella the Starry Breck Lichen 15 October 1999</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p> <p>Gilbert, O.L. (2002) Lichen survey of selected Breckland SSSIs. [English Nature Research Report No. 503].</p>	<p>Numerous monitoring reports of transplants.</p> <p><i>Buellia asterella</i> is now thought to be extinct in the UK</p>
<i>Calicium corynellum</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Gilbert, O.L. (1999). <i>Species Recovery Programme: Calicium corynellum</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p> <p>Simkin, J. (2003) <i>Calicium corynellum</i> 2002. [Back from the Brink Report No. 216, Plantlife, London].</p> <p>Simkin, J. (2003) <i>Calicium corynellum</i> [Plantlife online species dossier]. http://www.plantlife.org.uk/downloads/species_dossier/Calicium_corynellum_dossier.pdf</p>	Populations studied in 2004 by J Simkin
<i>Caloplaca aractina</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Edwards, B. (2001). <i>The current status of Caloplaca aractina in Cornwall</i>. [Back from the Brink Report no. 160. Plantlife, London].</p> <p>Edwards, B. (2004) <i>Caloplaca aractina</i> [Plantlife online species dossier in production].</p>	

<i>Caloplaca luteoalba</i>	English Nature Peter Lambley	Yes	<p>Orange, A. (1996). <i>A Survey of Lichens in Welsh Parklands</i>. (CCW Contract Science Report No. 138)</p> <p>Coppins, A.M. & Coppins, B.J. (1998). <i>Action Plans for Lower Plants in Scotland Project. Lichens. Caloplaca luteoalba</i>. [Report for Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p> <p>Edwards, B. (2002). <i>The past and present distribution of Bacidia incompta and Caloplaca luteoalba in England</i>. Back from the Brink Report no. 190. Plantlife, London.</p> <p>Edwards, B. & Giavarini, V.J. (2003) <i>The current status of Bacidia incompta, Biatoridium monasteriense and Caloplaca luteoalba in England</i>. [Back from the Brink Report no. 220. Plantlife, London].</p> <p>Coppins, A.M. & Coppins, B.J. (2003) <i>Lichen species dossier: Caloplaca luteoalba – orange-fruited elm lichen</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p> <p>Coppins, B J (2004) <i>BLS Bulletin</i> 95: 59.</p>	<p>Awareness leaflet on 'elm lichens' to be published during 2005</p> <p>2004: new site, on elm, S of Beaulieu in E Inverness</p>
<i>Caloplaca nivalis</i>	Species statement	-	<p>Fryday, A.M. (1999) Action Plans for Lower Plants in Scotland Project - Lichens - <i>Caloplaca nivalis</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p> <p>Giavarini, V.J.(2001). <i>Priority Lower Plant Surveys in Scotland: Caloplaca nivalis on Ben Lawers NNR</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	Not refound in either survey
<i>Catapyrenium psoromoides</i>	RBGE Dr Brian Coppins	Yes	<p>Edwards, B. (2002) <i>The current status of Catapyrenium psoromoides in England</i>. [Report to English Nature].</p> <p>Edwards, B. (2003) <i>Catapyrenium psoromoides in Melbury Park SSSI</i>. [Report to the Ilchester Estate and English Nature].</p> <p>O'Dare, A.M. & Coppins, B.J. (1995, as amended 2003) <i>Scottish Cryptogamic Conservation Project. Species Dossier: Catapyrenium psoromoides – tree catapyrenium</i>. [Report to Scottish Natural Heritage and Royal Botanic Garden Edinburgh].</p> <p>Coppins, A M & Coppins, B J (2003) <i>Milton Wood SSSI: Monitoring of experimental lichen transplants of Catapyrenium psoromoides</i>. [Report for Scottish Natural Heritage].</p>	<p>Monitored in October 2003 and part monitored during SCM at Milton Wood SSSI in 2004 [report in prep.]</p> <p>Transplants at Milton Wood not successful.</p> <p>Currently known from 1 tree in Perthshire, two in Dorset, and from limestone rocks at Chudleigh in Devon.</p>

<i>Chaenotheca phaeocephala</i>	Countryside Council for Wales Ray Woods	-		Small population on old oak tree near Welshpool found in 1996, but not subsequently refound. New population discovered on oak weather-boarded barn in Radnorshire in 2002. Negotiations commenced with owner to identify future use for this now decaying barn.
<i>Cladonia botrytes</i>	RBGE Dr Brian Coppins RSPB Les Street	Yes	Coppins, A.M. & Coppins, B.J. (1998). <i>Action Plans for Lower Plants in Scotland Project. Lichens. Cladonia botrytes</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Coppins, A.M. & Coppins, B.J. (2000) <i>Kindrogan Wood - Monitoring of Cladonia botrytes</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Street, S. (1998). <i>Cladonia botrytes - Pilot study in Badenoch and Strathspey</i> . [Report to Scottish Natural Heritage].	Monitoring at Kindrogan continued in 2004. Funding required to analyse 1999-2004 data. Not refound at Abernethy during SCM in 2004 [report in prep.]
<i>Cladonia mediterranea</i>	Plantlife Dr Jenny Duckworth	Yes	Edwards, B. (2001). <i>The current status of Cladonia mediterranea in the British Isles</i> . [Back from the Brink Report no. 161. Plantlife, London]. [Report updated 2004] Edwards, B. (2004) <i>Cladonia mediterranea</i> [Plantlife online species dossier in production].	
<i>Cladonia peziziformis</i>	Plantlife Dr Jenny Duckworth	Yes	Chambers, S.P. (2003) <i>Species dossiers for the UK BAP lichens</i> Biatoridium monasteriense, <i>Cladonia peziziformis</i> , Graphina pauciloculata and Schismatomma graphidioides. [Report to Countryside Council for Wales]. Coppins, A.M. & Coppins, B.J. (2002). <i>Lichen species dossier - Cladonia peziziformis</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. Giavarini, V.J.(2002). <i>Priority Lower Plant Surveys in Scotland: Cladonia peziziformis in Galloway</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	Recently discovered by SPC and SRD on coastal heath on Anglesey.

<i>Collema dichotomum</i>	Environment Agency Marlynne Good	Yes	<p>Coppins, A.M. & Coppins, B.J. (1999). <i>Craighall Gorge SSSI - Monitoring of Collema dichotomum</i>. [Report to Scottish Natural Heritage].</p> <p>Giavarini, V.J. (1999). <i>Survey to Determine the Presence/Absence of Collema dichotomum on the River Barle and River Exe</i>. [Report for the Environment Agency].</p> <p>Giavarini, V.J. (2001). <i>Priority Lower Plant Surveys in Scotland: Collema dichotomum on the River Tweed</i>. [Report for Scottish Natural Heritage.].</p> <p>Giavarini, V.J. (2002). <i>Priority Lower Plant Surveys in Scotland: Collema dichotomum on the River Esk</i>. [Report for Scottish Natural Heritage.].</p> <p>Gilbert, O.L. (1999). <i>Survey to Assess the Status of Collema dichotomum</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p> <p>O'Dare, A.M. & Coppins, B.J. (1995, updated 2003) <i>Scottish Cryptogamic Conservation Project. Species Dossier: Collema dichotomum</i>. [Report to Scottish Natural Heritage and Royal Botanic Garden Edinburgh].</p> <p>Giavarini, V.J. (2004). <i>Review of the Ecological requirements of Collema dichotomum in Britain</i>. [Report to the Environment Agency].</p>	<p>Awareness leaflet published by Environment Agency</p> <p>Northumberland sites being surveyed (early 2005) by John Douglass</p> <p>EA seeking additional funding for work in 2005/6</p>
<i>Enterographa elaborata</i>	English Nature Peter Lambley	Yes		
<i>Enterographa sorediata</i>	English Nature Peter Lambley	Yes	Sanderson, N.A. (2002) <i>Species dossier for Enterographa sorediata</i> . [Report to English Nature].	
<i>Graphina pauciloculata</i>	English Nature Peter Lambley	Yes	<p>Benfield, B. (2003) <i>Survey of Graphina pauciloculata on Dartmoor</i>. [Report to English Nature].</p> <p>Chambers, S.P. (2003) <i>Species dossiers for the UK BAP lichens Biatoridium monasteriense, Cladonia peziziformis, Graphina pauciloculata and Schismatomma graphidioides</i>. [Report to Countryside Council for Wales].</p> <p>Coppins, A M & Coppins, B J (2003) <i>Black Tor Copse NNR, cSAC, VC 4, North Devon</i>. [Report for English Nature; F14-01-18].</p>	<p>No recent survey of the Cornish sites</p> <p>Found in 2003 in the Barle Valley, Exmoor, and at Black Tor on Dartmoor and at a new site on Dartmoor in 2004. New sites in Wales found by SPC.</p> <p>2004: Habitat restoration work undertaken on one Welsh site (R Woods, pers com).</p>

<i>Gyalecta ulmi</i>	RBGE Dr Brian Coppins	Yes	<p>Coppins, A.M. & Coppins, B.J. (2000). <i>Scottish Cryptogamic Conservation Project. Species Dossier: Gyalecta ulmi – elm lichen</i>. [Report to Scottish Natural Heritage and Royal Botanic Garden Edinburgh].</p> <p>Coppins, A.M. & Coppins, B.J. (1999). <i>Den of Airlie NNR (VC89 East Perthshire & VC 90 Angus) Lichen Survey</i>. [Report to Scottish Natural Heritage].</p> <p>Coppins, A.M. & Coppins, B.J. (1999). <i>Creag Clunie and the Lion's Face SSSI Lichen Survey</i>. [Report to Scottish Natural Heritage].</p> <p>Gilbert, O.L. (1999). <i>Survey to assess the status of Gyalecta ulmi the Elm Tree Lichen</i>. [Report to Joint Nature Conservation Committee, Peterborough].</p>	<p>Monitoring transect established near Lion's Face in 1999.</p> <p>Population in Moccas Park monitored in 2003.</p> <p>2004: new site at Craig Leek SSSI</p>
<i>Gyalideopsis scotica</i>	Scottish Natural Heritage Anna Griffith	No	<p>Coppins, A.M. & Coppins, B.J. (2000) <i>Priority Lower Plants Scotland - Lichens - Gyalideopsis scotica</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	<p>No surveys in Wales</p> <p>Found during several post 1995 surveys in Scotland</p> <p>DROP? Agreed BJC</p>
<i>Halecania rhypodiza</i>	National Trust for Scotland Richard Luxmoore	No	<p>Coppins, A.M. & Coppins, B.J. (2000) <i>Priority Lower Plants Scotland - Lichens - Halecania rhypodiza</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	<p>DROP?, but add to list [to be compiled] of montane calcicolous saxicolous lichens - BJC</p>
<i>Heterodermia leucomela</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Edwards, B. (2001). <i>The current status of Heterodermia leucomelos in Cornwall</i>. [Back from the Brink Report no. 159. Plantlife, London].</p> <p>Edwards, B. (2002). <i>The current status of Heterodermia leucomelos in the Isles of Scilly</i>. [Back from the Brink Report no. 193. Plantlife, London].</p> <p>Edwards, B. (2002). <i>The current status of Heterodermia leucomelos in Wales</i>. [Back from the Brink Report no. 217. Plantlife, London].</p> <p>Edwards, B. (2004) <i>Heterodermia leucomela</i> [Plantlife online species dossier in production].</p>	<p>Awareness leaflet published by Plantlife</p> <p>New site found in Pembrokeshire in 2004.</p>
<i>Hypogymnia intestiniformis</i>	[Species statement only]	Yes	<p>Coppins, A.M. & Coppins, B.J. (2000) <i>Lichen species dossier: Hypogymnia intestiniformis</i>. [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].</p>	<p>Not found at 1960s site after two surveys.</p>

<i>Lecanographa grumulosa</i> <i>Lecanactis "hemisphaerica"</i>	Plantlife Dr Jenny Duckworth	Yes	<p>Giavarini, V.J. (2001) <i>The current status of Lecanactis hemisphaerica</i>: Year 1. [Back from the Brink Report no. 168. Plantlife, London].</p> <p>Giavarini, V.J. (2002) <i>The current status of Lecanactis hemisphaerica</i>: Year 2. [Back from the Brink Report no. 191. Plantlife, London].</p> <p>Giavarini, V.J. (2003) <i>The current status of Churchyard Lecanactis (Lecanographa grumulosa)</i>: Year 3. [Back from the Brink Report no. 219. Plantlife, London].</p> <p>Giavarini, V.J. (2004) Lecanographa grumulosa [Plantlife online species dossier]. http://www.plantlife.org.uk/downloads/species_dossier/Lecanographa_grumulosa_dossier.pdf</p>	<p>Awareness leaflet published by Plantlife</p> <p>An infraspecific taxonomic status within <i>L. grumulosa</i> has been recommended, but no valid publication at an infraspecific rank has been made.</p> <p>Probably best included in future in a 'churchyard' species group</p>
<i>Opegrapha paraxanthodes</i>	[None]	No	Coppins, A.M. & Coppins, B.J. (2000) <i>Priority Lower Plants Scotland – Lichens – Opegrapha paraxanthodes</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	<p>Taxonomic review needed</p> <p>No targeted surveys, but species found during surveys at Lion's Face and Den of Airlie in 1999 and at Aberedw, Radnorshire, also in 1999.</p> <p>DROP? Agreed BJC</p>
<i>Peltigera lepidophora</i>	Scottish Natural Heritage Anna Griffith	Yes	<p>O'Dare, A.M. & Coppins, B.J. (1995) <i>Scottish Cryptogamic Conservation Project. Species Dossier: Peltigera lepidophora – ear-lobed dog lichen</i>. [Report to Scottish Natural Heritage and Royal Botanic Garden Edinburgh].</p> <p>Coppins, A.M. & Coppins, B.J. (1999). <i>Craighall Gorge SSSI – Monitoring of Peltigera lepidophora</i>. [Report to Scottish Natural Heritage].</p>	<p>2004 – 4 lobes seen during SCM.</p> <p>Suggest quarterly monitoring to determine seasonality</p>
<i>Pertusaria bryontha</i>	[Species statement]	Yes	Fryday, A.M. (1999) <i>Action Plans for Lower Plants in Scotland Project – Lichens – Pertusaria bryontha – alpine moss pertusaria</i> [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	Not found in 1994.
<i>Pseudocyphellaria aurata</i>	RBGE Dr Brian Coppins	Yes	Edwards, B. (2002). <i>The current status of Pseudocyphellaria aurata in the British Isles</i> . [Unpublished report to Royal Botanic Garden, Edinburgh.]	Healthy population at only known extant British site on Scilly Isles in 2002
<i>Pseudocyphellaria norvegica</i>	RBGE Dr Brian Coppins	Yes	Coppins, A.M. & Coppins, B.J. (1997). <i>Action Plans for Lower Plants in Scotland Project. Lichens. Pseudocyphellaria norvegica</i> . [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	<p>Hazelwood group joint management plan.</p> <p>Re-found at one Welsh site.</p>

<i>Schismatomma graphidioides</i>	RBGE Dr Brian Coppins	Yes	Coppins, A.M. & Coppins, B.J. (1998). <i>Species Recovery Programme: Survey to assess the status of Schismatomma graphidioides, "The Speckled script lichen", in England.</i> [Report to English Nature. Contract No. FIN/CON/089]. Coppins, A.M. & Coppins, B.J. (1997; updated 2000). <i>Action Plans for Lower Plants in Scotland Project. Lichens. Schismatomma graphidioides – speckled script lichen.</i> [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh].	Several new sites have been recently discovered in Scotland & Wales. Also New Forest (N Sanderson, pers comm). Some records reported in <i>BLS Bulletin</i>
<i>Squamarina lentigera</i>	English Nature Peter Lambley	Yes	Gilbert, O.L. (1991). <i>Species Recovery Programme: Breckland Lichen Survey 1991.</i> [Report to Joint Nature Conservation Committee, Peterborough]. Gilbert, O.L. (2002) Lichen survey of selected Breckland SSSIs. [English Nature Research Report No. 503].	Numerous monitoring reports of transplants.
<i>Teloschistes chrysophthalmus</i>	Plantlife Dr Jenny Duckworth	No		<i>Teloschistes chrysophthalmus</i> is believed to be extinct in the UK.
<i>Thelenella modesta</i>	Plantlife Dr Deborah Long	Yes	Coppins, A.M. & Coppins, B.J. (1997; updated 2002). <i>Action Plans for Lower Plants in Scotland Project. Lichens. Thelenella modesta – warty wax lichen.</i> [Report to Scottish Natural Heritage & Royal Botanic Garden Edinburgh]. James, P W, Allen, A & Hilton, B (2000) Lichens of Sark. <i>Rep. Trans. Soc. Guernesiaise</i> 24: 657–702.	Known from a single ash tree in Angus and a new record (1999) from hawthorn twig on Sark (Peter James).

**Bryan Edwards, BLS Conservation Officer
December 2004**

As amended by Stephen Ward, 8 February 2005 in discussion with Jenny Duckworth, Ray Woods, Marlynne Good, Brian & Sandy Coppins