

# Species Changes in Macrolichens of the Pacific Northwest, 2<sup>nd</sup> edition (2009)

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## Totals:

117 new species added  
53 name changes  
1 species removed

*Acroscyphus sphaerophoroides* added

*Allocetraria madreporiformis* replaces *Dactylina madreporiformis*

*Anaptychia bryorum* added

*Anaptychia crinalis* – revived name replaces *A. setifera*

*Anaptychia elbursiana* – new name for *Physconia thomsonii*; added to key to genera

*Aspicilia filiformis* – replaces *Aspicilia* sp. (undescribed)

*Bryoria* mystery species reassigned to *B. pseudofuscescens* and *B. friabilis*.

*Bunodophoron melanocarpon* added to key to genera

*Candelaria “pacifica”* Westberg ined. added

*Cladina* spp – moved to *Cladonia*

*Cladonia cervicornis* – changed to *C. verticillata*

*Cladonia concinna* added

*Cladonia prolifica* – added to key

*Cladonia stygia* – added to key

*Collema occultatum* – added

*Collema* sp. (undescribed, cuboidal spores) – added

*Dactylina madreporiformis* moved to *Allocetraria madreporiformis*

*Dendriscoaulon* added but referred to *Lobaria amplissima* and *Sticta oroborealis*

*Dermatocarpon americanum* added to key, not yet in PNW

*Dermatocarpon atrogranulosum* added

*D. bachmannii* added

*D. deminuens* added

*D. intestiniforme* removed

*D. lorenzianum* changed to *D. leptophyllodes*, the former a synonym

*D. luridum* removed – misidentifications of *D. meiophyllizum*. Substitute photo and text for *D. meiophyllizum*

*D. polyphyllizum* added

*D. schaechtelinii* added

*D. taminium* added to key, not in our area

*Erioderma pedicellatum* added to key with photo, known so far from Alaska

*Fuscopannaria ahlneri* added

*Fuscopannaria alaskana* added

*Fuscopannaria aurita* added

*Fuscopannaria californica* added

*Fuscopannaria cheiroloba* added

*Fuscopannaria confusa* added

*Fuscopannaria coralloidea* added

*Fuscopannaria crustacea* added

*Fuscopannaria hookerioides* added

*Fuscopannaria incisa* added

*Fuscopannaria laceratula* added  
*Fuscopannaria leprosa* added  
*Fuscopannaria leucophaea* added  
*Fuscopannaria pulveracea* added  
*Fuscopannaria ramulina* added  
*Fuscopannaria thiersii* added  
*Fuscopannaria* (see also name changes under *Pannaria*)  
*Heterodermia japonica* added  
*Heterodermia leucomelos* changed to *H. leucomela*  
*Heterodermia namaquana* added  
*Hydrothyria venosa* moved to *Peltigera hydrothyria*  
*Hypogymnia canadensis* added as featured species  
*Hypogymnia subphysodes* added  
*Hypotrachyna afrorevoluta* added to key under *H. revoluta*  
*Hypotrachyna riparia* added, replacing *H. sp.*  
*Koerberia biformis* added  
*Lempholemma chalazanum* added  
*Lempholemma cladodes* added  
*Lempholemma fennicum* added  
*Lepraria adhaerens* added because of superficial similarity to *Fuscopannaria cyanolepra*  
*Lepraria santamonicae* added because of superficial similarity to *Fuscopannaria cyanolepra*  
*Leptogium aquale* added  
*Leptogium arsenei* added  
*Leptogium brebissonii* added  
*Leptogium byssinum* added  
*Leptogium cellulosum* added  
*Leptogium corniculatum* changed to *Leptogium palmatum*  
*Leptogium furfuraceum* changed to *Leptogium pseudofurfuraceum*  
*Leptogium hirsutum* changed to *Leptogium burnetiae*  
*Leptogium nanum* added  
*Leptogium platynum* added  
*Leptogium siskiyouensis* added  
*Leptogium tacomae* added  
*Leptogium turgidum* added  
*Letharia gracilis* added  
*Lichinella nigrifella* added to key to genera  
*Lichenomphalia* replaces *Omphalina*  
*Lobaria amplissima* added  
*Lobaria quercizans* (+ *L. japonica*) added  
*Melanelia agnata* added  
*Melanelia hepatizon* replaces *Cetraria hepatizon*  
*Melanelixia fuliginosa* replaces *Melanelia fuliginosa*  
*Melanelixia glabra* replaces *Melanelia glabra*  
*Melanelixia glabroides* replaces *Melanelia glabroides*  
*Melanelixia subargentifera* replaces *Melanelia subargentifera*  
*Melanelixia subaurifera* replaces *Melanelia subaurifera*  
*Melanohalea elegantula* replaces *Melanelia elegantula*  
*Melanohalea exasperatula* replaces *Melanelia exasperatula*  
*Melanohalea infumata* replaces *Melanelia infumata*  
*Melanohalea multispora* replaces *Melanelia multispora*  
*Melanohalea subelegantula* replaces *Melanelia subelegantula*

*Melanohalea subolivacea* replaces *Melanelia subolivacea*  
*Menegazzia subsimilis* added  
*Moelleropsis nebulosa* added  
*Neofuscelia* transferred all 3 spp to *Xanthoparmelia* (subg. *Neofusca*)  
*Pannaria conoplea* added  
*Pannaria cyanolepra* changed to *Fuscopannaria cyanolepra*  
*Pannaria hookeri* added  
*Pannaria leucostictoides* changed to *Fuscopannaria leucostictoides*  
*Pannaria maritima* changed to *Fuscopannaria maritima*  
*Pannaria mediterranea* changed to *Fuscopannaria mediterranea*  
*Pannaria saubinetii* in PNW changed to *Fuscopannaria pacifica*  
*Pannaria praetermissa* changed to *Fuscopannaria praetermissa*  
*Pannaria rubiginella* added = *Pannaria malmei* (misidentifications in our area)  
*Pannaria tavaresii* added  
*Parmelia skultii* added  
*Parmelina coleae* added to key to genera and description added.  
*Parmotrema perlatum* replaces *P. chinense*  
*Peltigera castanea* added  
*Peltigera chionophila* added  
*Peltigera extenuata* added  
*Peltigera hymenina* added  
*Phaeophyscia ciliata* added  
*Phaeophyscia hirtella* added  
*Phaeophyscia cernohorskyi* moved to a synonym of *P. hirsuta*  
*Physcia tribacia* added, replacing *P. callosa* (now a synonym)  
*Physconia fallax* added  
*Placopyrenium conforme* added to *Dermatocarpon* key  
*Placynthium* added to key to genera (not treated further)  
*Protopannaria pezizoides* changed from *Pannaria pezizoides*  
*Pseudocyphellaria mallota* added  
*Pseudocyphellaria perpetua* added  
*Punctelia borneri* added to key  
*Punctelia perreticulata* replaces *Punctelia subrudecta* (misidentifications in N Am)  
*Punctelia rudecta* added to key  
*Racodium rupestre* added  
*Ramalina americana* added to key  
*Ramalina sinensis* mention added  
*Siphula ceratites* added  
*Solorina monospora* added  
*Sphaerophorus fragilis* added  
*Sphaerophorus tuckermanii* replaces epiphytic *S. globosus* in PNW in part  
*Sphaerophorus venerabilis* replaces epiphytic *S. globosus* in PNW in part  
*Stereocaulon condensatum* added  
*Stereocaulon nivale* added  
*Stereocaulon symphycheilum* added  
*Sticta oroborealis* added  
*Umbilicaria cinereorufescens* added  
*Umbilicaria nylanderiana* added  
*Usnea chaetophora* added  
*Usnea esperantiana* added  
*Usnea flavocardia* replaces *Usnea wirthii*

*Usnea fragile* var. *mollis* added  
*Usnea fulvovirens* replaces *Usnea glabrescens*  
*Usnea intermedia* added (= *Usnea arizonica*)  
*Usnea lambii* replaces *Usnea sphacelata*  
*Usnea nidulans* added  
*Usnea pacificana* added  
*Usnea quasirigida* added (= *U. rigida* sensu Halonen et al.)  
*Usnea schadenbergiana* replaces *Usnea hesperina*  
*Usnea silesiaca* added (= *Usnea madeirensis*)  
*Usnea trichodea* added  
*Usnea wasmuthii* added  
*Verrucaria compacta* added to *Dermatocarpon* key  
*Verrucaria sphaerospora* added to *Dermatocarpon* key  
*Vestergrenopsis elaeina* added to main key  
*Xanthomendoza borealis* added  
*Xanthomendoza galericulata* added  
*Xanthomendoza mendozae* added  
*Xanthomendoza montana* added  
*Xanthomendoza oregana* added  
*Xanthoparmelia loxodes* moved here from *Neofuscelia*  
*Xanthoparmelia montanensis* added to key  
*Xanthoparmelia subhosseana* moved here from *Neofuscelia*  
*Xanthoparmelia verruculifera* moved here from *Neofuscelia*  
*Xanthoria fulva* moved to *Xanthomendoza*  
*Xanthoria oregana* moved to *Xanthomendoza*  
*Xanthoria fallax* moved to *Xanthomendoza*  
*Xanthoria ulophyllodes* moved to *Xanthomendoza*  
*Xanthoria hasseana* moved to *Xanthomendoza*  
*Xanthoria subramulosa* synonymized with *Xanthomendoza fulva*  
*Xanthoria tenax* added