

## KEY I

### THALLUS STERILE, WITH ISIDIA, THLASIDIA OR SCHIZIDIA ON BARK OR WOOD

(After Tonsberg, 1992)

April, 1993

1. Schizidia present. .... Baeomyces rufus
1. Thlasidia or isidia present. .... 2
2. Thlasidia present. Lichen substances absent. .... Gyalideopsis anastomosans
2. Isidia present. Lichen substances present. .... 3
3. Thallus areolate. .... 4
3. Thallus continuous. .... 5
4. Isidia orange, K+ purple, C. Herbidella 1 & 2 (anthraquinones) present. .... Caloplaca herbidella
4. Isidia dark green to brown, K, C+ red. Gyrophoric acid (major) and 5Omethylnhiascic acid present. .... Placynthiella icmalea
5. Tuberculae resembling coarse, irregular isidia. Picrolichenic acid or fatty acids diagnostic substances. .... 6
5. Tuberculae, if present, not resembling isidia. Picrolichenic acid and fatty acids absent. .... 7
6. Picrolichenic acid (KC+ violet) present. .... Pertusaria amara
6. Fatty acids (allopertusaric and dihydropertusaric) (KC) present. .... Pertusaria albescens
7. Isidia with a distinct medulla, sometimes darkened towards the apices. .... 8
7. Isidia without a medulla, not darkened towards the apices; gyrophoric acid (C+ red, UV+ bluish white) present. .... Ochrolechia subviridis
8. Isidia whitish, up to 1 mm wide, always with apothecia immersed in the apices. .... Pertusaria dactylina
8. Isidia grayish, up to 0.5 mm wide, sterile, apically

darkened, pigment K+ violet. .... Pertusaria oculata

ADD:

Thallus coralloid isidiate. Phycobiont  
Trentepohlia. .... Porina nucula

Isidia in black, soralialike clusters; medulla I+ blue. ....  
Thelomma ocellatum

Squamules to 0.5 mm wide, ± contiguous, often ascending, nodulose  
and subgranular, rarely dispersed and elongate, digitiform. On  
basic or nutrientenriched bark. .... Agonimia tristiuscula

Thallus dark grayish to reddish brown, isidiate or consisting of  
granules < 0.1 mm diameter. Generally in fairly dry  
habitats. .... Placynthiella uliginosa

Thallus pale fawn brown, of small granules (blastidia) forming a  
thick, granular areolate crust, C+ persistent orange (xanthones).  
On exposed, decorticated maritime wood. .... Lecidella  
prasinula

Thallus of yellow, coralloid granules, never dark colored on  
upper surface. On trunks of mature, basic barked trees in  
parklands, wayside situations and woodlands. .... Bacidia  
rubella

ADD (non N. American)

Caloplaca isidiigera

Gyalideopsis spp.

Bacidia biatorina

Rinodina isidioides

Macentina stigonemoides

Agonimia octospora

Pertusaria coccodes

Pertusaria coronata

Pertusaria flavida

Zamenhofia spp.