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Additions to the lichen and lichenicolous flora of Denmark VII

ULRIK SØCHTING, VAGN ALSTRUP, JANA KOCOURKOVÁ, JAN VONDRÁK and RENÉ SPIEGELBERG LARSEN

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25 lichen species and 17 lichenicolous fungi are reported as new for Denmark: *Arthonia galactinaria*, *A. muscigena*, *Arthrorhaphis aeruginosa*, *Bacidia trachona*, *B. viridifarinosa*, *Caloplaca crenulatella*, *Chrysothrix chlorina*, *C. flavovirens*, *Endococcus parietinarius*, *Epicladonia stenospora*, *Fellhanera vezdae*, *Gyalecta geoica*, *Lecania hutchinsiae*, *Lecanora perpruinosa*, *L. strobilina*, *L. zosteriae*, *Lecidella laureri*, *Libertiella fennica*, *Marchandiomyces aurantiacus*, *Marchandiomyces corallinus*, *Opegrapha gyrocarpa*, *Parmelia ernstiae*, *Phoma epiphyscia*, *P. lecanorina*, *Polyblastia albida*, *Pseudephebe minuscula*, *Ramalina elegans*, *Roselliniella cladoniae*, *Skyttea gregaria*, *Sphaerellothecium parietinarium*, *S. propinquellum*, *Stigmidium clauzadei*, *Strangospora ochrophora*, *Syzygospora physciacearum*, *Taeniolella pertusariicola*, *Thelidium acrotellum*, *Trichonectria anisospora*, *Verrucaria murina*, *V. praetermissa*, *Vezdaea acicularis*, *Xanthoparmelia plittii*, and *Xylographa vitilago*. Additional 40 lichen species and 19 lichenicolous fungi are reported from new districts in Denmark.

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Since the last “Additions to the Danish lichen flora” was published in 2004 (Alstrup et al. 2004) many additional data have accumulated about the lichenized and lichenicolous fungi in Denmark. Some of them are presented below in a condensed form and provide a basis for the updated checklist of the lichen diversity in Denmark to be produced in 2007 (Søchting & Alstrup 2007), and for a future checklist of Danish lichenicolous fungi. Some old, previously unreported collections at the

Botanical Museum Copenhagen (C), revised by RSL and VA, are also included. In total we report 25 lichen species and 17 lichenicolous fungi new to Denmark in addition to 40 lichen species and 19 lichenicolous fungi, which are new to one or several Danish districts.

Cited collections are kept in the Botanical Museum in Copenhagen (C) unless otherwise stated. The districts, printed in bold, refer to those of Søchting & Alstrup (2002) and are also illustrated at the homepage: <http://www.bi>.

ku.dk/lichens/dkchecklist: **SJ** = South Jutland, **EJ** = East Jutland, **WJ** = West Jutland, **NWJ** = Northwest Jutland, **NEJ** = Northeast Jutland, **F** = Funen and surrounding islands, **LFM** = Lolland, Falster and Møn, **SZ** = South Zealand, **NEZ** = Northeast Zealand, **B** = Bornholm.

** indicates a new species for Denmark.

* indicates a species new to a district.

+ indicates a lichenicolous fungus

§ indicates a related, non-lichenized, non-lichenicolous fungus.

The species

*+*Abrothallus* aff. *bertianus* De Not. **NEJ**. Vendsyssel, Ålbæk Plantage, on *Cetraria islandica*, 11 August 2005, US. Santesson et al. (2004) reported *A. bertianus* on *Cetraria islandica*, but as the species of *Abrothallus* are very host-specific, at least at the generic level, we believe it to be an undescribed species distinct from *A. bertianus*, the type of which was growing on *Melanelia fuliginosa*.

*+*Abrothallus caeruleus* Kotte. **B**. Christiansø, on *Xanthoparmelia conspersa*, 20 September 2005, VA. The material reported as *A. bertianus* from Fyn (Alstrup et al. 2004) is in fact this species.

Anisomeridium polypori* (Ellis. & Everh.) M.E.Barr. **F. Otterup, Enebærødde, 21 April 2006, VA; Lilleglyden, between Østrup, Gustrup and Hessum Forest, in Tilio-Aceretum, 22 April 2006, JK (PRM 908703). **NWJ**. Salling, Kås Hovedgård, scrub South of buildings, 29 October 2004, VA.

+*Arthonia galactinaria* Leight. **F. Otterup, sandy coast by Hasmark Strand, Enebærødde, on *Lecanora albescens*, 22 April 2006, JK (herb. PRM 908714).

***Arthonia muscigena* Th.Fr. **F**. Kerteminde, Hindsholm, on *Ulmus glabra*, without date (late 20th century), E. Larsen.

the ny!

+*Arthrorhaphis aeruginosa* R.Sant. & Tønsberg. **EJ. Anholt, Ørkenen, on *Cladonia cervicornis* squamules, May 1975, K. Ramkær, det. VA.

***Bacidia trachona* (Ach.) Lettau. **B**. Jons Kapel, on vertical, sheltered coastal rocks, 11 November 2006, JV & RSL (C, herb. JV).

***Bacidia viridifarinosa* Coppins & P.James. **B**. Jons Kapel, on vertical sheltered coastal rocks, 11 November 2006, JV & RSL (herb. JV).

Bacidina delicata* (Larbal. ex Leight.) V.Wirth & Vězda. **F. Årup, Vissenbjerg, 23 April 2006, JK (herb. PRM 908698).

Bacidina phacodes* (Körber) Vězda. **F. Årup, Vissenbjerg, on *Tilia europaea* in the graveyard, 23 April 2006, VA.

Buellia disciformis* (Fr.) Mudd. **F. Årup, Vissenbjerg, Afgrunden, on *Fraxinus excelsior*, 23 April 2006, VA.

Buellia schaeferi* De Not. **NEJ. Himmerland, Tofte Skov, on *Juniperus communis*, 30 April 2005, VA. Same locality, on *Alnus glutinosa*, 1 May 2005, VA.

***Caloplaca crenulatella* (Nyl.) H.Olivier. **NEZ**. Tisvildeleje Railway Station, concrete, 4 November 2006, JV (herb. JV). **F**. Otterup, Hasmark, sandy coast, Enebærødde, concrete blocks, 21 April 2006, JK (herb. PRM 908712). The taxon was formerly included in *Caloplaca lactea*.

Caloplaca obscurella* (Körb.) Th.Fr. **NEZ. Hillerød, Tisvilde Hegn, bark of *Quercus robur*, 4 November 2006, JV (C, herb. JV).

Caloplaca ulcerosa* Coppins & P.James. **B. Hammeren, Hammerhus, solitary trees East and South of castle, bark of solitary *Ulmus glabra*, 12 November 2006, JV & RSL (C, herb. JV);

Jons Kapel, bark of *Sambucus nigra* close to seashore, 11 November 2006, JV & RSL (C, herb. JV).

**Candelariella reflexa* (Nyl.) Lettau. F. Årup, Vissenbjerg, Præsteskov, on *Fagus sylvatica* and *Fraxinus excelsior*, 23 April 2006, VA, JK (herb. PRM 908695).

**Chaenotheca brumneola* (Ach.) Müll.Arg. NEJ. Himmerland, Tofte Skov, on *Quercus robur*, 30 April 2005, VA.

**Chaenotheca chlorella* (Ach.) Müll.Arg. B. Døndalen, bark of *Ulmus glabra*, 11 November 2006, JV & RSL (herb. JV).

***Chrysothrix chlorina* (Ach.) J.R.Laundon. EJ. Mols Bjerger, Agri Sø, on granite stone, 6 April 1943, M. Skytte Christiansen.

***Chrysothrix flavovirens* Tønsberg. NEZ. Asserbo Plantage, near Stængehus, on *Pinus mugo* var. *rostrata*, 10 October 2004, VA. The species called *C. chrysophthalma* in Alstrup (2001) is this species and is illustrated with a Swedish specimen.

**+*Endococcus parietinarius* (Lindsay) Clauzade & Cl.Roux. B. Sandvig, Hammerknuden, on *Xanthoria parietina*, 19 September 2005, VA. (see *Sphaerellothecium*)

**Enterographa elaborata* (Lyell & Leight.) Coppins & P.James. NEZ. Herslev, Bognæs, on *Fagus sylvatica*, 11 April 1996, VA.

*+*Epiclادonia sandstedei* (Zopf) D.Hawksw. F. Flyvesandet, on *Cladonia rangiformis*, JK (PRM 908738) and *Cladonia subrangiformis*, 23 April 2006, JK (herb. PRM 908739). In both specimens the fungus forms characteristic galls with immersed conidiomata and mostly 1-septate conidia.

*+*Epiclادonia simplex* D.Hawksw. F. Otterup, Flyvesandet, on *Cladonia rangiformis*, 23

April 2006, VA. The fungus forms sessile pycnidia with simple conidia and it is not gall-forming.

**+*Epiclادonia stenospора* (Harm.) D.Hawksw. B. Christiansø, on *Cladonia furcata*, 27 May 2005, O. B. Lyshede, det. VA.

**Farnoldia jurana* (Schaer.) Hertel. SZ. Fakse, Fakse Kalkbrud, on asbestos roofing material on the ground, 1 May 2001, VA.

**Fellhanera subtilis* (Vězda) Diederich & Sérusiaux. F. Morud, Blæsbjerg, on *Abies nordmanniana*, 28 August 2003, US 10.098.

***Fellhanera vezdae* (Coppins & P.James) V.Wirth. SZ. Slagelse, on leaves of *Ilex aquifolium* in a garden, 5 June 2005, VA. Apothecia were not seen, but it was identified on the characteristic conidia. *Ihke ny.*

**Fuscidea gothoburgensis* (H.Magn.) V.Wirth & Vězda. NEJ. Himmerland, Tofte Skov, on stone in a *Calluna* heathland, 1 May 2005, VA.

***Gyalecta geoica* (Ach.) Ach. EJ. Mols Bjerger, Agri Sø, on basal parts of dead *Calvatia caelata*, 10 April 1943, M. Skytte Christiansen.

**Haematomma ochroleucum* (Neck.) J.R.Laundon var. *porphyrium* (Pers.) J.R.Laundon. LFM. 10 km Northeast of Naskov, Reventlows Park, on *Aesculus hippocastanum*, 5 April 2006, RSL (herb. RSL).

*+*Illosporiosis christiansenii* (B.L.Brady & D.Hawksw.) D.Hawksw. LFM. Næsby Strand, on *Physcia tenella*, 29 December 2006, T. Læssøe, TL-12924. F. Årup, Vissenbjerg, on *Physcia tenella*, 23 April 2006, JK (herb. PRM 908723). NEZ. Hillerød, Hillerød Slotsruin, on *Physcia tenella*, 1890, C. Raunkjær, det. VA.

*+*Intralichen lichenum* (Diederich) D.Hawksw. & M.S.Cole. NEJ. Himmerland, Tofte Skov, on *Lecanora carpinea* on *Alnus glutinosa*, 1 May 2005, VA.

**Lecania fuscella* (Schaer.) A.Massal. F. Otterup, Enebærødde, on *Acer pseudoplatanus*, 22 April 2006, VA.

***Lecania hutchinsiae* (Nyl.) A.L.Smith. B. Jons Kapel, vertical, sheltered coastal rock, 11 November 2006, JV & RSL (herb. JV).

**Lecanora aitema* (Ach.) Hepp. F. Otterup, Enebærødde, on bark of *Pinus mugo*, 21 April 2006, VA.

**Lecanora cadubriae* (A.Massal.) Hedlund. NWJ. Thy, Hanstedreservatet, on lignum of *Pinus mugo*, parasitized by *Phoma lecanorina* Diederich, 5 September 2002, VA. The species was supposed to be extinct in Denmark with previous reports being those by Hellbom (1890) and Galløe (1908) based on material from Bornholm.

**Lecanora crenulata* Hook. SZ. Fakse, Fakse Kalkbrud, on asbestos roofing material on the ground, 1 May 2001, VA.

**Lecanora horiza* (Ach.) Lindsay. B. Bådsted, 19 September 2005 and Christiansø, on bark of *Acer pseudoplatanus*, 20-21 September 2005, VA.

***Lecanora perpruinosa* Frøberg. B. Christiansø, on calcareous stone, 21 September 2005, VA.

**Lecanora persimilis* (Th.Fr.) Nyl. F. Otterup, on bark of young *Fraxinus excelsior* and *Rosa* sp., 22 April 2006, VA & JK (herb. PRM 908707). There is one previous report from Denmark, by Degelius (1965) based on material from EJ. Hald Egeskov.

**Lecanora saligna* (Schrad.) Zahlbr. SZ. Sorø Sønderkov, rotten wood, 14 October 2006, US 10624.

***Lecanora strobilina* (Spreng.) Kieff. NWJ. Thy, Klitmøller, Hanstedreservatet, on cone of *Pinus mugo* and stem of *Empetrum nigrum*, 5 September 2002, VA.

**Lecanora xanthostoma* Cl.Roux ex Frøberg. SZ. Fakse, Fakse Kalkbrud, on asbestos roofing material on the ground, 1 May 2001, VA.

***Lecanora zosteræ* (Ach.) Nyl. NEJ. Deget, East of Frederikshavn, wooden pole at mole, 2 August 1997, US 1849 (det. I. M. Brodo).

**Lecidella carpathica* Körb. NEJ. Himmerland, Tofte Skov, on stone in *Calluna vulgaris* heathland, 1 May 2005, VA.

***Lecidella laureri* (Hepp) Körb. NEJ. Høstemark, on *Populus tremula*, 25 February 1994, S. Svane 9546-1.

*+*Leptosphaeria ramalinae* (Desm.) Sacc. NWJ. Salling, Kås Hovedgård, scrub South of buildings, on *Ramalina fastigiata*, 29 October 2004, VA.

**+*Libertiella fennica* Alstrup. B. Grusgrav, sandpit at place where Stavelund meets Åkirkebyvej, 55.05°N, 14.46°E, on *Peltigera didactyla*, 12 November 2006, JV & RSL (herb. JV). NEZ. Gilleleje, seashore West of town, on *Peltigera didactyla* growing on sandy soil near coast, 29 October 2006, JV (herb. JV).

*+*Lichenocmium xanthoriae* M.S.Christ. F. Årup, Vissenbjerg, on *Xanthoria polycarpa*, 23 April 2006, JK (herb. PRM 908699).

*+*Lichenodiplis lecanoræ* (Vouaux) Dyko & D.Hawksw. B. Jons Kapel, on apothecia of *Caloplaca holocarpa* s.l. on *Sambucus nigra*,

11 November 2006, JV (herb. PRM). **F.** Årup, Vissenbjerg, swamp, on *Fraxinus excelsior*, on apothecia of *Lecanora persimilis*, 23 April 2006, JK (PRM 908803). *Lecanora persimilis* is a more common host for the species than *Caloplaca holocarpa*.

*+*Lichenodiplis pertusariicola* (Nyl.) Diederich. **LFM.** Møn, Borre, Liselund Skov, on *Pertusaria pertusa*, March 2006, VA.

+*Marchandiomyces aurantiacus* (Lasch) Diederich & Etayo. **NWJ. Salling, Brigsbjerg Krat, on *Physcia tenella*, 22 October 2002, VA.

+*Marchandiomyces corallinus* (Roberge) Diederich & D.Hawksw. **B. Christiansø, on *Parmelia saxatilis* and *P. omphalodes*, 20 September 2005, VA. **EJ.** Galten, Gammel-mose, on *Melanohalea elegantula*, September 2005, L. Samsøe, det. VA.

Micarea bauschiana* (Körb.) V.Wirth & Vězda. **EJ. Silkeborg Sønderskov, on pebbles, 4 April 1992, S. Svane, det. RSL.

*+*Muellerella pygmaea* (Körb.) D.Hawksw. **B.** Tejn, Bådsted, on *Lecanora polytropa*, 20 September 2005, VA.

Neofuscelia verruculifera* (Nyl.) Essl. **B. western part of Hammeren, on granite, 22 September 2005 and Stammershalle, 23 September 2005, VA.

***Opegrapha gyrocarpa* Flot. **B.** Jons Kapel, vertical, sheltered, coastal rock, 11 November 2006, JV & RSL (herb. JV).

Opegrapha herbarum* Mont. **B. Hammeren, Hammershus, solitary trees East and South of castle, bark of large, dead *Ulmus glabra* in humid forest, 12 November 2006, JV & RSL (C, herb. JV).

Opegrapha soreidiifera* P.James. **NEZ. Tisvildeleje, on bark of *Quercus robur*, 4

November 2006, JV 4671, det. T. Tønsberg (C, herb. JV).

***Parmelia ernstiae* Feuerer & A.Thell. **NEJ.** Himmerland, Tofte Skov, on *Almus glutinosa*, 1 May 2005, VA. **SZ.** Bregentved, on *Tilia* sp., 9 August 2004, A. Thell & T. Feuerer. **NEZ.** 5 km Northeast of Hillerød, Strødam, on *Fraxinus excelsior*, 20 April 2005, US. **LFM.** Maltrup Skov, on *Quercus robur* or *Q. petraea*, 4 April 2006, RSL.

Pertusaria hymenea* (Ach.) Schaer. **LFM. Lolland, Krenkerup Skov, on *Quercus robur*, 4 April 2006, RSL (herb. RSL).

*+*Phaeopyxis punctum* (A.Massal.) Rambold, Triebel & Coppins. **NWJ.** Thy, Klitmøller, Hanstedreservatet, on *Cladonia portentosa*, 12 September 1992, VA.

+*Phoma epiphyscia* Vouaux. **NWJ. Salling, Kås Skov, on *Physcia stellaris* on *Quercus robur* or *Q. petraea*, 21 October 2002, VA. As the holotype of the species has been destroyed, Alstrup & Hawksworth (1990) selected a neotype. This specimen, which was from Greenland, had slightly larger conidia ($7 \times 3 \mu\text{m}$) than given in the protologue ($6 \times 3 \mu\text{m}$). The present specimen has the shorter conidia and is clearly gall-forming.

+*Phoma lecanorina* Diederich. **NWJ. Klitmøller, Hanstedreservatet, on *Lecanora cadubriae*, 5 September 2002, VA.

Physconia perisidiosa* (Ericks.) Moberg. **LFM. Lolland, Reventlows Park, on *Aesculus hippocastanum*, 5 April 2006, RSL (herb. RSL).

Placynthiella dasaea* (Stirt.) Tønsberg. **SZ. Sorø Sønderskov, Runde Mose, rotten wood, 14 October 2006, US 10626.

Placynthium nigrum* (Huds.) Gray. **SZ. Fakse, Fakse Kalkbrud, on limestone, 1 May 2001, VA.

***Polyblastia albida* Arnold. **NJ.** Klim Bjerg, calcareous stone, 15 July 1998, US 9584, det. C. Roux.

Polyblastia agraria* Th.Fr. **NEZ. Gilleleje, sandy soil near coast, 29 October 2006, JV, det. US.

*+*Polysporina lapponica* (Ach. ex Schaer.) Degel. **B.** Tejn, Bådsted, on *Acarospora fuscata*, 20 September 2005, VA.

***Pseudephebe minuscula* (Nyl. ex Arnold) Brodo & D.Hawksw. **NWJ.** Hanherred, c. 3 km south of Bulbjerg, on erratic boulder, October 1993, R. Poulsen & M. Christensen (herb. Poulsen), det. VA.

***Ramalina elegans* (Bagl. & Carestia) Jatta. **NEJ.** Sæbygaard Skov, August 1858, leg. Johan Lange, det. R. Skytén.

Ramboldia insidiosa* (Th.Fr.) Hafellner. **NEJ. Himmerland, Tofte Skov, on *Lecanora varia*, 30 April 2005, VA.

+*Roselliniella cladoniae* (Anzi) Matzer & Hafellner. **NEJ. Biersted, St. Vildmose, on *Cladonia* sp. in *Sphagnum* bog, 26 August 2004, Thomas Læssøe, det. VA.

Sclerophora amabilis* (Tibell) Tibell. **SJ. Elbjærg Skov, on *Quercus robur* or *Q. petraea*, 1884, J. S. D. Branth, det. S. Svane.

+*Skyttea gregaria* Sherwood, D.Hawksw. & Coppins. **NEJ. Himmerland, Tofte Skov, on *Mycoblastus fucatus* on *Almus glutinosa*, 1 May 2005, VA.

*+*Skyttella mulleri* (Willey) D.Hawksw. & R.Sant. **NEZ.** Gilleleje, coastal dunes West of town, on *Peltigera didactyla*, with *Libertiella*

fennica. **B.** sandpit where Stavelund meets Åkirkebyvej, on *Peltigera didactyla*, 12 November 2006, JV & RSL (herb. JV, RSL).

+*Sphaerellothecium parietinarium* (Lindsay) Hafellner & V.John. **B. Sandvig, Hammerknuden, on *Xanthoria parietina*, 19 September 2005, VA. Until recently the species was regarded as belonging to the genus *Endococcus*. Hafellner & John (2006) transferred the species to *Sphaerellothecium* as it has the shape of asci, the positive Lugol reaction, and presence of not evanescent paraphysoides typical of that genus, although the superficial brown mycelium on the host thallus, another generic feature, is missing.

+*Sphaerellothecium propinquellum* (Nyl.) Cl.Roux & Triebel. **NEJ. Himmerland, Tofte Skov, on *Lecanora carpinea*, April 2005, VA.

§*Stenocybe pullatula* (Ach.) Stein. **B.** Sandvig, at the northern shore of Hammersø, on *Almus glutinosa*, 22 September 2005, VA.

Stereocaulon pileatum* Ach. **NEZ. Nivå Railway Station, a few specimens on gravel, 13 October 2005, O. B. Lyshede & VA. The species was in Denmark previously only known from Bornholm, 1945.

+*Stigmidium clauzadei* Cl.Roux & Nav.-Ros. **EJ. Himmerland, Hadsund, Als Odde, on *Verrucaria muralis*, 6 May 1989, VA.

*+*Stigmidium congestum* (Körb.) Triebel. **LFM.** Møn, Liselund Skov, on *Lecanora carpinea*, 23 March 2006, VA.

*+*Stigmidium fuscatae* (Arnold) R.Sant. **B.** Tejn, Bådsted, on *Acarospora fuscata*, 20 September 2005, VA.

***Strangospora ochrophora* (Nyl.) J.R.Anderson. **NEZ.** Hillerød, playing-ground at Horsevænget 31, trunk of *Salix pentandra*, 29 June 2001, A. Nordin 5366a (UPS L-114731). **EJ.**

Kolding, bark of *Ulmus glabra*, 1989, Margot Møller Nielsen. **B.** Arnager, bark of *Sambucus nigra*, 11 November 2006, JV & RSL (C, JV).

*+*Syzygospora bachmannii* Diederich & M.P.S.Christ. **B.** Christiansø, on *Cladonia gracilis*, 20 September 2005, VA.

+*Syzygospora physciacearum* Diederich. **F. Årup, Vissenbjerg, on *Physcia tenella*, 23 April 2006, JK (herb. PRM 908721). **NWJ.** Salling, Kås, shrub southwest of buildings, on *Physcia adscendens*, 29 October 2004, VA.

+*Taeniolella pertusariicola* D.Hawksw. & H.Mayrhofer. **EJ. Addit, Addit Skov, on *Pertusaria amara*, 11 May 1995, VA.

***Thelidium acrotellum* Arnold. **WJ.** Lønborg, Ålbæk Enge, on calcareous stone, 3 July 1970, S. Svane 337.

Thelocarpon epibolum* Nyl. **F. Årup, Vissenbjerg, moraine hill at the church, on stump of *Fagus sylvatica*, 23 April 2006, JK (PRM 908805).

Thelocarpon intermediellum* Nyl. **SZ. Sorø Sønderkov, Runde Mose, rotten wood, 14 October 2006, US 10625.

+*Trichonectria anisospora* (Lowen) van den Boom & Diederich. **F. Otterup, Hasmark Strand, Flyvesandet, on *Hypogymnia physodes*, 23 April 2006, VA (C) & JK (herb. PRM 908737).

Umbilicaria proboscidea* (L.) Schrad. **NEJ. Hanherred, Ø. Svenstrup, Janum Kjøt, on big boulder in *Calluna* heathland, 29 April 2005, VA (not collected). The only previous report from Denmark is based on material from Bornholm (Hellbom 1890).

***Verrucaria murina* Leight. **WJ.** Lønborg, Ålbæk Enge, on calcareous stone, with *Thelidium acrotellum*, 3 July 1970, S. Svane.

NWZ. Sejerø, Mastrup, on mortar, 24 September 1995, VA.

***Verrucaria praetermissa* (Trevis.) Anzi. **NWZ.** Egebjerg, Stokkebjerg Skov, 20 August 1943, M. Skytte Christiansen. **F.** Vejstrup, on calcareous boulder, 20 May 1946, M. Skytte Christiansen. **LFM.** Bogø, 13 June 1947, M. Skytte Christiansen. **SJ.** Kollund Dyrehave, on stone in stream, 26 July 1977, US 2525, 2528. **NEJ.** Rold Skov, 15 November 1971, S. Svane & 8 August 1979. **EJ.** Ejer skov, 26 May 1983, M. Skytte Christiansen.

***Vezeadaea acicularis* Coppins. **NEZ.** Gilleleje, sandy soil near coast, 29 October 2006, JV (herb. JV & C).

***Xanthoparmelia plittii* (Gyelnik) Hale. **EJ.** Sandskægsbakken, Strandskærgård, Femmøller, on acid stone, 24 April 1969, S. Svane.

Xanthoria aureola* (Ach.) Erichsen. **F. Otterup, Enebærodde, on coastal concrete construction, 21 April 2006, VA.

*+*Xanthoriicola physciae* (Kalchbr.) D.Hawksw. **NWJ.** Salling, Kås Hovedgård, scrub South of buildings, on *Xanthoria parietina*, 29 October 2004, VA. **F.** Vissenbjerg, Møllesøen, on *Xanthoria parietina*, 23 April 2006, VA.

***Xylographa vitiligo* (Ach.) J.R.Laundon. **F.** Otterup, Enebærodde, on lignum, 21 April 2006, VA.

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