

*Citation:*

Oudemans, C.A.J.A., Contributions to the knowledge of some undescribed or imperfectly known Fungi (2nd part), in:

KNAW, Proceedings, 3, 1900-1901, Amsterdam, 1901, pp. 230-244

**Botanics.** — "Contributions to the knowledge of some undescribed or imperfectly known Fungi" (2<sup>nd</sup> Part)<sup>1)</sup>. By Prof. C. A. J. A. OUDEMANS.

**II. FUNGI SECUNDARI<sup>II</sup> sive  
INFERIORES.**

† **S P H A E R O P S I D E A E.**

a. *Sphaeroideae.*

α. *Hyalosporae.*

**PHYLLOSTICTA** Persoon.

6. **PHYLLOSTICTA AESCULANA** Oud. n. sp. On the leaves of *Aesculus Hippocastanum*. Nunspeet, Oct. 2, 1899; Mr. BEINS.

Perithecia primo sub epidermide occultata, postea exposita, sparsa, subglobosa, nigra; sporulae ellipticae, hyalinae, ad polos late rotundatae, nitide biocellatae,  $6-7 \times 3\frac{1}{2}-4\frac{2}{3} \mu$ . Differt ab omnibus affinibus (*Phyll. aesculina* Sacc., *Phyll. sphaeropsidea* Ell. et Ev., *Phyll. Aesculi* Ell. et Mart. et *Phoma aesculina* Sacc.) dimensione sporularum majore vel minore, seu mutata ratione longitudinem sporularum inter et latitudinem (Pl. IV, fig. 2).

7. **PHYLLOSTICTA ALNEA** Oud. n. sp. On the leaves of *Alnus glutinosa*. Nunspeet, Oct. 13, 1899; Mr. BEINS. — Maculae amphigenae, utrimque fertiles, 2—10 mill. in diam., pallide ferrugineae, tandem a partibus sanis viridibus vicinis descissentes. Perithecia minima, fuliginea, sphaerica, prominentia. Sporulae hyalinae, rectae vel subcurvatae,  $4\frac{1}{3}-7 \times 2\frac{1}{3} \mu$ . — Differt a *Phyll. alnicola* Cooke et Massee (Contrib. Mycol. Vér. 18; Sacc., Syll. IX, 117) sporulis manifeste majoribus ( $4\frac{2}{3}-7 \times 2\frac{1}{3} \mu$  contra  $2.38 \times 0.7 \mu$ ).

8. **PHYLLOSTICTA BRACTEARUM** Oud. n. sp. — On the bracts of the female inflorescences of *Humulus Lupulus*. — Nunspeet, 8 Dec. 1898; Mr. BEINS. — Maculae nullae. Perithecia sparsa, nigra, coriacea,  $\frac{1}{10}-\frac{1}{6}$  mill. in diam., poro apicali destituta. Sporulae bacillares, rectae, hyalinae, eguttulatae, parvae ( $4-4\frac{2}{3} \times 1\frac{1}{2} \mu$ ), ad polos rotundatae.

When applying stronger lenses it appears that in both poles a small, drop-shaped body is hidden.

9. **PHYLLOSTICTA BUFONII** Oud. n. sp. (*Phoma Bufonii* Oud. in

---

<sup>1)</sup> For 1<sup>st</sup> Part see these Proceedings p. 140.

Hedw. XXXVI (1898) p. 313). On the leaves of *Juncus bufonius*. — Nunspeet, March 1898; Mr. BEINS. — Perithecia sparsa, primo tecta, postremo exposita,  $\frac{1}{8}$ — $\frac{1}{6}$  mill. in diam., nigerrima, membranacea, centro poro pertusa; sporulae achromae, continuae, ellipticae, eguttulatae,  $9 \times 4 \mu$ .

10. **PHYLLOSTICTA FAGI** Oud. n. sp. — On the leaves of *Fagus sylvatica*. — Nunspeet, Oct. 30, 1899; Mr. BEINS. — Maculae amphigenae, fertiles tantum in pagina superiore, dilutissime fuligineae,  $\frac{1}{2}$  circa cent. in diam., sed saepe confluentes. Perithecia epiphylla, maculicola, exilissima,  $\frac{1}{12}$ — $\frac{1}{10}$  mill. in diam., dense distributa, orbicularia, opaca. Sporulae minutissimae, bacillares,  $4\frac{2}{3} \times 1\frac{1}{6} \mu$ , immixtis paucis  $7 \mu$ , hyalinae, continuae, guttulis expertes, ad polos rotundatae, basidiis filiformibus longiusculis suffultae.

11. **PHYLLOSTICTA HOLOSTEICOLA** Oud. n. sp. — On the leaves of *Stellaria Holostea*. — Nunspeet, April 17, 1900; Mr. BEINS. — Perithecia amphigena, vulgo autem epigena, in maculis pallide griseis foliorum siccatorum subprominentia, vulgo numerosa et conferta, submicantia,  $\frac{1}{8}$ — $\frac{1}{6}$  mill. in diam., tenera, subfuliginosa. Sporulae cylindricae, rectae vel subcurvatae, ad polos late-rotundatae,  $16$ — $20 \times 4\frac{2}{3}$ — $5\frac{1}{2} \mu$ , biocellatae, guttulis, volumine sporularum in rationem inducتو, pusillis.

12. **PHYLLOSTICTA ILCIS** Oud. n. sp. — On the leaves of *Ilex Aquifolium*. — Nunspeet, May 28, 1899; Mr. BEINS. — Maculae valde extensae, ad ambitum multo pallidiores, irregulariter limitatae, hypogenae. Perithecia hypogena, rarissime epigena, gregaria, atra, micantia, prominula, primo occultata, postea exposita, centro perforata,  $\frac{1}{8}$ — $\frac{1}{4}$  in diam. — Sporulae ellipticae vel breviter-oblongae, utrimque rotundatae, hyalinae, protoplasmate aequali replete,  $5$ — $7 \times 2$ — $3 \mu$ .

13. **PHYLLOSTICTA LABURNI** Oud. n. sp. — On the leaves of *Cytisus Laburnum*. — Nunspeet, Oct. 25, 1899; Mr. BEINS. — Maculis arescendo albidae, diversiformes,  $1$ — $1\frac{1}{2}$  cent. in diam., non marginatae; perithecia irregulariter distributa, atra, semigloboso-depressa, opaca,  $\frac{1}{6}$ — $\frac{1}{4}$  mill. in diam., tandem poro pertusa; sporulae hyalinae, oblongae vel ovato-oblongae, ad polos rotundatae,  $9$ — $12 \times 3 \mu$ , biguttatae, guttulis majoribus saepe minoribus paucis concomitatis. — Differt a *Ph. laburnicola* Sacc. Mich. I, 152 et Syll. III, 10, macularum praesentia, et peritheciis sporulisque majoribus (166—250 contra 60—70  $\mu$ , et  $9$ — $12 \times 3$  contra  $3$ — $5 \times 1 \mu$ ).

14. *PHYLLOSTICTA NARCISSI* Oud. n. sp. — On the leaves of a cultivated species of *Narcissus*. — Noordwijk, June 18, 1898. — In company of *Heterospora gracilis* and *Septoria Narcissi*. — Perithecia amphigena, numerosissima, conferta, tamen inaequaliter distributa, innata, 40  $\mu$  in diam., membrana valde subtili praedita; cirrhi, ubi adsunt, sphaerici, dilutissime rosei. Sporulae ellipticae aut oblongae, rectae vel curvatae, hyalinae, continuae, biocellatae,  $4\frac{2}{5}$ — $14 \times 2\frac{1}{3}$ — $3\frac{1}{2}$   $\mu$ , guttulis valde distinctis.

\**PHYLLOSTICTA PERSICICOLA* Oud. n. sp. — On the blown-up portions of Peach-leaves attacked by *Exoascus deformans*. — Apeldoorn, June 1898; O. — Hedw. XXXVII (1898) p. 313.

15. *PHYLLOSTICTA PODAGRARIAE* Oud. n. sp. — On the leaves of *Aegopodium Podagraria*, in company of *Discosia Artocreas* and *Septoria Podagrariae*. — Nunspeet, Oct. 14, 1899; Mr. BEINS. — Maculae amphigenae, pallide ferrugineae, valde extensae, irregulariter limitatae, utrimque fertiles. Perithecia sparsa, sub epidermide occultata,  $\frac{1}{12}$ — $\frac{1}{19}$  mill. in diam., fuliginosa, depressa, tandem centro perforata. Sporulae ellipticae vel ovatae, ad polos rotundatae, continuae, hyalinae, guttula nitida in quovis polo praeditae,  $7$ — $7.2 \times 2\frac{1}{3}$ — $4\frac{2}{3}$   $\mu$ . — Species nostra toto coelo differt a *Phoma Podagrariae* West. (Not. III, Bull. Acad. r. de Belg. XIX, 1852, p. 116 et Sacc. Syll. III, 169) cuius synonyma sunt: *Sphaeria Podagrariae* Roth, *Dothidea Podagrariae* Fr. et *Septoria Podagrariae* Lasch.

\**PHYLLOSTICTA QUERCICOLA* Oud. n. sp. — At the under face of the leaves of *Quercus Robur*. cf. Hedw. XXXVII (1898) p. 175.

16. *PHYLLOSTICTA TRAPPENII* Oud. n. sp. — On the leaves of *Fraxinus juglandifolia*. — Naaldwijk 1864; the late Dr. J. E. VAN DER TRAPPEN. — Maculae amphigenae, vulgo valde extensae (ad 3 dec. in diam.), obscure limitatae. Perithecia nigra, numerosa, aequaliter distributa, adulta  $\frac{1}{6}$  mill. in diam., prominentia. Sporulae oblongae vel elongato-ellipticae, ad polos rotundatae, hyalinae,  $7 \times 2\frac{1}{3}$   $\mu$ .

17. *PHYLLOSTICTA VINCICOLA* Oud. n. sp. — On the leaves of *Vinca major*. Nunspeet, July 9, 1899; Mr. BEINS. — Maculae amphigenae, nigrae, quoad formam et dimensiones valde diversae, irregulariter limitatae, utrimque fertiles. Perithecia minima, in parenchymate foliorum abscondita, vertice perforata. Sporulae initio in

globulum albidum, peritheciis orificio obstruentem coalitae, singulae ellipticae, ad polos obtusissimae, hyalinae, biocellatae, basidiis filiformibus, sporulis multo longioribus suffultae,  $3\frac{1}{2}-4\frac{2}{3} \times 1\frac{3}{4}-2\mu$ . — Differt a *Phyll. Vincae* Thüm., *Phyll. Vincae majoris* Allescher, *Macrophoma Vincae* Berl. et Vogl. et *Macrophoma cylindrospora* Berl. et Vogl., nunc praesentia guttularum, tunc iterum dimensionibus sporularum reductis.

## P H O M A Fries.

18. PHOMA AMYGDALI Oud. n. sp. — On the leaves of *Amygdalus communis*. Nunspeet, April 27, 1899; Mr. BEINS. — Perithecia parva ( $\frac{1}{10}$  mill.), centro perforata. Sporulae breve-ellipticae,  $4-5 \times 3 \mu$ , hyalinae, continuae, guttulis destitutae.

19. PHOMA COLCHICAE Oud. n. sp. — On the petioles of *Staphylea colchica*. — Nunspeet, March 1898; Mr. BEINS.

Perithecia numerosa,  $\frac{1}{4}-\frac{1}{2}$  mill. in diam., per totam petiolorum superficiem irregulariter dispersa, epidermide perpetuo tecta, prominentia, vertice exposito perforata, circa ostiolum epidermidis portiuncta annulari nigrefacta ornata. Sporulae angustius vel latius oblongae, rectae, perfecte hyalinae, ad polos obtusiusculae, continuae, nitide 2-, 3-vel 4-guttalatae,  $8-10 \times 3-4 \mu$ .

Maculae stromaticae nigrescentes, linea atra subinde distinctissime cinctae, quarum mentio facta est a mycologis Berlese et Voglino in descriptione *Phomae Brunaudi* (Sacc. Syll. III, 150), in ramulis nostris certe non defecerunt; relationem attamen has inter et perithecia supra descripta revera existere, nobis non licuit.

*Phoma colchicae* ab affinibus *Ph. Robergeana*, *Ph. Staphyleae* et *Ph. Brunaudi*, omnibus ramorum *Staphyleae colchicae* incolis, luculententer differt guttularum valde conspicuarum, nitidissimarum in sporulis praesentia, nec non peritheciornm volumine.

20. PHOMA CORNICOLA Oud. n. sp. — On the branches of *Cornus alba*. — Naaldwijk, 1866; the late Dr. J. E. VAN DER TRAPPEN.

Maculae nullae. Perithecia numerosissima, conferta, perpetuo sub epidermide occultata, prominentia, vertice exposito perforata,  $\frac{1}{4}$  mill. in diam. Sporulae ellipticae,  $5 \times 2\frac{1}{2} \mu$ , rectae, hyalinae, continuae, biocellatae.

Differt nostra species a *Phoma Corni* sporulis suis minoribus ( $5 \times 2\frac{1}{2} \mu$  contra  $8-10 \times 2-3 \mu$ ), rectis, ellipticis (neutiquam oblongo-cylindricis); a *Phoma thallina* absentia macularum linea purpurina limitatarum; a *Phoma Corni suecicae* peritheciis confertis, nec non

sporulis suis ellipticis (neque cylindricis); a *Phoma candidula* peritheciis confertis, nec non sporulis suis ellipticis, rectis (nec cylindricis, rectis et curvatis commixtis).

\* PHOMA DESCISCENS Oud. n. sp. — On branchlets of *Vitis vinifera*. cf. Hedwigia XXXVII (1898) p. 314.

\* PHOMA DOUGLASII Oud. n. sp. — On the cone-scales of *Abies Douglasii*. cf. Hedwigia XXXVII (1898) p. 314.

21. PHOMA COSMI Oud n. sp. — On the stems of *Cosmos bipinnatus*. — Nunspeet, Sept. 5, 1899; Mr. BEINS.

Perithecia caespitosa, nigra, globuloso-depressa, sub epidermate abscondita,  $\frac{1}{10}$ — $\frac{1}{6}$  mill. in diam., minute papillata, vertice perforata; sporulae oblongae, continuac, hyalinae, ad polos rotundatae, eguttatae,  $9\frac{1}{3} \times 2\frac{1}{2} \mu$ .

22. PHOMA EUPHORBIPHILA Oud. n. sp. — On the stems of *Euphorbia Lathyris*. — Naaldwijk, Dec. 1866; the late Dr. J. E. VAN DER TRAPPEN.

Perithecia numerosissima, conferta totamque internodiorum superficiem occupantia, perpetuo sub epidermide occultata, parum prominentia, tandem vertice exposito perforata et circa ostiolum portiuncula epidermidis annulari nigricante ornata,  $\frac{1}{4}$  mill. sine, mill. 1 cum zona nigricante in diam. metientia. Sporulae oblongae vel subclavatae, rectae vel curvatae,  $7-9 \times 2\frac{1}{2} \mu$ , 1- ad 4-guttulatae, hyalinae, continuae.

\*PHOMA FRANGULAE Oud. n. sp. — On thin branches of *Rhamnus Frangula*. cf. Hedw. XXXIV (1898) p. 314.

23. PHOMA HAMAMELIDIS Oud. N. K. A. 3, I, 487. — This should be *Phoma Halesiae* Oud. n. sp. On branches of *Halesia tetrapeta*. Nunspeet, March 7, 1898; Mr. BEINS.

The name of the plant was first given me wrongly, later correctly.

24. PHOMA IDAEI Oud. n. sp. — On the branches of *Rubus idaeus*. — Nunspeet, Febr. 3, 1899; Mr. BEINS.

Perithecia orbiculari-depressa,  $\frac{1}{5}$ — $\frac{1}{4}$  mill. in diam., vertice perforata, membrana justo crassiore praedita, perpetuo sub epidermidis portiunculo scutiformi, elliptico vel oblongo, nigro et paullo micante, ad polos acutato,  $1-2 \times 1$  millim., occultata. Sporulae ellipticae vel oblongae, ad polos rotundatae, hyalinae, biocellatae,  $7-8\frac{1}{6} \times 2\frac{1}{3}-3\frac{1}{2} \mu$ , basidiis sporularum longitudinem attingentibus suffultae.

\* PHOMA INEXPECTATA Oud. n. sp. — On the leaves of *Abies pectinata*. Cf. Hedw. XXXVII (1898), p. 176.

\* PHOMA INOPINATA Oud. n. sp. — On the leaves of *Pinus Strobus*. Cf. Hedw. XXXVII (1898), p. 177.

25. PHOMA LARICIS Oud. n. sp. — On the twigs of *Larix decidua*. Scheveningen, May 1894.

Perithecia caespitose aggregata, subglobosa, primo sub peridermate abscondita, postea exposita, atra,  $100-250 \mu$  in diametro. Sporulae ellipticae, hyalinae, continuae, eguttalatae,  $7 \times 2\frac{1}{2} \mu$ .

26. PHOMA NEGUNDINIS Oud. n. sp. — On the branches of *Negundo fraxinifolia*.

Perithecia numerosissima, primitus sub peridermate abscondita, tandem exposita,  $140 \mu$  in diam., ochracea, vertice perforata. Sporulae ellipticae, continuae, hyalinae,  $4\frac{2}{3} \times 3\frac{1}{2} \mu$ .

27. PHOMA OENOTHERICOLA Oud. n. sp. — On the leaves of *Oenothera biennis*. Nunspeet, March 13, 1898; Mr. BEINS.

Perithecia inordinate distributa, sub epidermate latentia, lenticiformia, vertice perforata,  $\frac{1}{10}$  mill. in diam. Cellulae epidermales ostiolo peritheciis contiguae saturatius tinctae quam aliae magis distantes. Sporulae breviter oblongae,  $7 \times 2\frac{1}{2} \mu$ , eguttulatae, hyalinae.

Differt haec nostra species a *Phoma oenotherella* Sacc. sporulis angustioribus ( $7 \times 2\frac{1}{2} \mu$  contra  $7 \times 4 \mu$ ) et colore cellularum peritheciis ostiolum circumdantium; a *Phoma Oenotherae* Sacc. et *Phoma Onagrarum* Cooke guttularum in sporulis absentia; a *Phoma Onagrarum* insuper sporularum latitudine minore ( $7 \times 2\frac{1}{2} \mu$  contra  $6-8 \times 3\frac{1}{2}-4 \mu$ ).

\*PHOMA QUERNEA Oud. n. sp. On branches of *Quercus Robur*. — Nunspeet, March 7, 1898; Mr. BEINS. Cf. Ned. Kr. Arch. 3, I, 489.

28. PHOMA SACCARDOI Oud. — On branches without bark of *Sambucus nigra*. Naaldwijk, 1864; the late Dr. J. E. VAN DER TRAPPEN.

When on p. 491 of the 1<sup>st</sup> volume of the 3<sup>rd</sup> series of the "Nederlandsch Kruidkundig Archief" (1898) I mentioned *Phoma vicina* Desm. as a new indigena for our country, I pronounced the supposition that my specimens would not differ from those described by Mr. SACCARDO in Syll. III, 71, notwithstanding the measurements ( $5 \times 2 \mu$ ) of the spores examined by the Italian mycologist, did not correspond with those of DESMAZIERES and of myself ( $7-5 \times 1.9 \mu$ ). At that time I had not however, had an opportunity of getting acquainted with *Phoma vicina* Saccardo, which is bound to branches

*deprived of bark of Sambucus nigra.* Now, however, that I have come into possession of such objects, I have been enabled to convince myself that such an identity between both Phomas, as to which I referred above, does not exist, and that consequently, they cannot be indicated by one and the same name. For this reason I supplied *Phoma vicina* Sacc. by *Phoma Saccardoi*.

To be sure, it cannot be denied that in both species the base of the perithecia dives down to a slight depth into the wood of the branches, but this does not prevent the perithecia of *Phoma vicina* Desm. from having a much more robust appearance, and thicker walls, and from its never occurring but on the branches of the elder covered with bark, whilst those of *Phoma Saccardoi* Oud. are much more delicate and small, have a transparent membranaceous wall, and prefer branches devoid of bark.

\***PHOMA SALICELLA** Oud. n. sp. — On the branches of *Salix cinerea*. — Nunspeet, March 7, 1898; Mr. BEINS. — Cf. N. Kr. Arch. 3, I, p. 490.

29. **PHOMA SALISBURYAE** Oud. n. sp. — On the branches of *Salisburya adianthifolia*. — Botanical Garden Leiden, Aug. 1893.

Perithecia numerosa, inordinate distributa, orbicularia, nigra,  $\frac{1}{4}$ — $\frac{1}{3}$  mill. in diam., primo sub peridermate latentia, postea in fissuris corticis exposita, vertice perforata. Sporulae fusiformes, ad polos anguste rotundatae, hyalinae, continuae, eguttulatae,  $9 \times 2 \mu$ .

\***PHOMA SEMPERVIRENTIS** Oud. n. sp. — On the still green branches of *Lonicera sempervirens*. — Nunspeet, April 15, 1898; Mr. BEINS. — Cf. Hedw. XXXVI (1898) p. 315.

30. **PHOMA SOLANIPHILA** Oud. n. sp. — On the stems of *Solanum nigrum*. — Nunspeet, Dec. 19, 1899; Mr. BEINS.

Perithecia laxe caespitosa, sub epidermide latentia, postremo exposita, sphaeroideo-depressa,  $140$ — $160 \mu$  in diam., nigra, vertice perforata. Sporulae ellipticae, hyalinae, continuae, eguttulatae, ad polos rotundatae,  $4\frac{2}{3}$ — $7 \times 2\frac{2}{3}$ — $3 \mu$ .

Differt a *S. dulcamarina*, *pampeana*, *Dulcamarae* et *solanicola*, absentia guttularum, et a *P. europaea* et *Solani* sporularum dimensionibus desciscentibus.

\***PHOMA SUBTILISSIMA** Oud. n. sp. — On the dried peduncles of *Cytisus Laburnum*. — Cf. Hedw. XXXVII (1898) p. 315.

31. PHOMA TATARICOLAE Oud. n. sp. — On the branches of *Lonicera tatarica* not yet deprived of their bark. — Nunspeet, March 5, 1899.

Perithecia numerosissima, nunc totam internodiorum superficiem occupantia, tunc vero gregatim conferta limitesque macularum pallidissimorum valde extensarum non excedentia, sub peridermate occultata, postea autem vertice suo perforato, intra zonulam nigrescentem inclusa, exposita. Sporulae nunc ellipticae, tunc vero paullo elongatae, ad polos rotundatae, biocellatae, hyalinae,  $7-8 \times 3\frac{1}{2}-4 \mu$ .

Species neutiquam confundenda neque cum *Ph. oblongata* Briard et Henrich (Sacc. Syll. X, 145), nec cum *Ph. Mariae*, quae ambae *lignicolae*; neque cum *Ph. cryptica* Sacc. (Syll. III, 69), cuius sporulae forma recessit; neque cum *Ph. minutula* Sacc. (Syll. III, 70), cuius sporulae voluminosiores; neque cum *Ph. tatarica* Allescher (Wint. Kr. Fl. VI, 221), cuius sporulae non tantum voluminosiores sed insuper forma recessit; neque cum *Ph. xylostei* Cooke et Harkness (Sacc. Syll. III, 70) et *Ph. viventis* Cooke (Sacc. Syll. X, 145), quarum sporulae voluminosiores.

32. PHOMA THYRSIFLORAE Oud. n. sp. — On the stems of *Lysimachia thyrsiflora*, in company with *Ascochyta Lysimachiae* Oud. Nunspeet, April 15, 1898; Mr. BEINS. — Maculae nullae. Perithecia minima ( $\frac{1}{10}$  mill. in diam.), laxa caespitosa, sub peridermate occultata, prominentia, denique vertice perforata. Sporulae breve-ellipticae, hyalinae, eguttulatae,  $3\frac{1}{2}-5 \times 2\frac{1}{3}-3 \mu$ .

Differ a *Ph. Lysimachiae* sporulis multo minoribus ( $3\frac{1}{2}-5 \times 2\frac{1}{3}-3 \mu$  contra  $10 \times 4\frac{1}{2}-5 \mu$ ).

33. PHOMA TRIACANTHI Oud. n. sp. — On the thorns of *Gleditschia triacanthos*, in company with *Ph. Gleditschiae*. — Nunspeet, March 18, 1899; Mr. BEINS.

Perithecia nunc aequaliter distributa, tunc caespitose aggregata, majoribus et minoribus commixtis, sub peridermate latentia, p. m. prominentia, denique in fissuris longitudinalibus rectis vel curvatis, simplicibus vel ramosis, exposita. Sporulae oblongae, ad polos late rotundatae, hyalinae, nitide biocellatae,  $7 \times 2\frac{1}{3} \mu$ .

34. PHOMA TYPHICOLA Oud. n. sp. — On the stems of *Typha latifolia*. — Nunspeet, May 21, 1899; Mr. BEINS.

Perithecia primo sub epidermide latentia, postremo exposita, minima, nigra. Sporulae ellipticae vel oblongae, ad polos rotundatae, continuae, hyalinac, eguttulatae,  $3\frac{1}{2}-5 \times 2\frac{1}{3} \mu$ . (Pl. IV, fig. 3).

35. PHOMA VIBURNICOLA Oud. n. sp. — On the branches of *Viburnum Oxycoccus*, in company with *Ascochyta viburnicola*. — Nunspeet, April 14, 1899; Mr. BEINS.

Perithecia numerosa, parva, diu sub peridermate occultata. Sporulae ellipticae, hyalinae, continuae, eguttulatae,  $5-6 \times 3\frac{1}{2} \mu$ .

#### MACROPHOMA Berlese et Voglino.

36. MACROPHOMA CAPSELLAE Oud. n. sp. — On the leaves of *Capsella Bursa pastoris*. — Apeldoorn, July 26, 1899; O. — Perithecia conferta, primo epidermide velata, denique exposita, nigra. Sporulae ellipticae vel elliptico-oblongae, hyalinae, continuae, ad polos rotundatae, biocellatae,  $16 \times 6 \mu$ .

The size of the spores does not allow this species to be admitted into the genus *Phyllosticta*.

37. MACROPHOMA ILCIS (Desm.) Oud. — On the leaves of *Ilex Aquifolium*. Described by DESMAZIÈRES under the name of *Phoma Ilicis* in his „Plantes Cryptogames de France”, 1<sup>e</sup> S., 1<sup>e</sup> Ed., N°. 1290, and taken up by SACCARDO under the same name in Syll. III, p. 106.

Perithecia hypophylla, numerosissima, subconferta, saepe intra limites macularum pallescentium coacervata, valde prominentia, sub epidermide occultata, vertice perforata, nigra,  $\frac{1}{5}$  ad  $\frac{1}{4}$  mill. in diam. Sporulae ellipticae vel ovatae, hyalinae, continuae,  $12-15 \times 6-7 \mu$ , initio protoplasmate nebuloso repletae, denique guttula voluminosa centrali ornatae, ad polos late rotundatae, longe pedicellatae, apice passim apiculatae.

Now that the genus *Macrophoma* has been introduced into science for those species of *Phoma*, whose spores are 15 or more mikrons in length, it was necessary to bring *Phoma Ilicis* Desm. under this head. With the name in SACCARDO's Syll. (III, 106) the same ought to be done.

#### SCLEROTIOPSIS Spegazzini.

38. SCLEROTIOPSIS POTENTILLAE. Oud. n. sp. — On the leaves of *Potentilla procumbens* (*Tormentilla reptans*). — Nunspeet, August 26, 1898; Mr. BEINS.

Perithecia innata, semiglobosa, nigra, submicantia, adulta p. m. 1 mill. in diam., nunc ad faciem foliorum superiorem, tunc vero ad inferiorem prominentia, absque ullo ostioli vestigio, membrana fragili, indistincte parenchymatosa instructa. Basidia filiformia, recta. Spo-

rulae acrogenae, solitaires, cylindricae, semilunares, indistincte mucronatae, hyalinae, continuae,  $7-9\frac{1}{3} \times 2 \mu$ . — (Pl. IV, fig. 4).

Our description of *Scl. Potentillae* corresponds almost entirely with that of *Scl. australasiaca*, made known by SPEGAZZINI in SACCARDO's Syll. III, p. 184. As, however, between the shape and the internal colour of the perithecia of both fungi, the size of their spores, and the nature of their host-plant, greater and smaller differences were to be observed, I thought myself justified in allowing both *Scl.* : *Scl. Potentillae* on *Potentilla procumbens* and *Scl. australasiaca* on *Eucalyptus Globulus*, to continue as two species and not to join them to one.

39. *SCLEROTIOPSIS PITYOPHILA* (Cda) Oud.; *Phoma pityophila* Sacc. Syll. III, 101; Allescher in Wint. Kr. Fl. VI, 199; *Sphaeroparma pityophila* Corda Ic. Fg. 40 et tab. VIII, fig. 116. — On the leaves of *Pinus silvestris*. — Nunspeet, 1899; Mr. BEINS.

Perithecia amphigena, primo abscondita, in acuum parenchymate immersa, postremo exposita, corporaque sistentia sclerotiformia, nigra, nunc separata et subsphaerica, tunc vero coalita et irregularia. Quodvis corpusculum e stratis quasi duobus compositum: uno scil. magis superficiali, parenchymatoso, nigrescente, crassiore, densiore; altero, magis interiore, parenchymatoso, pallide-flavo, tenuiore, molliore, dum constat colorem nigrescentem cellularum membranis, colorem pallide-flavum vero cellularum contentis esse proprium. Sporulae maturae ex orificio accidentalí, irregulari, non autem ex ostiolo naturali protrusae, corpuscula sistunt oblonga, hyalina, ad polos rotundata, uniguttulata (?)

#### RABENHORSTIA Fries.

\**RABENHORSTIA CLANDESTINA* Fr.; Sacc. Syll. III, 244. On dead branches of *Sorbus Aucuparia*. — Nunspeet, May 9, 1898; Mr. BEINS.

A detailed description of this hardly known fungus, which has only very superficially been described by SACCARDO, I gave in *Hedwigia XXXVII* (1898) p. 315.

\**RABENHORSTIA SALICIS* Oud. n. sp. — On the branches of *Salix repens*. Nunspeet, May 5, 1898; Mr. BEINS. — *Hedw. XXXVII* (1898) p. 317.

#### PLACOSPHAERIA Saccardo.

40. *PLACOSPHAERIA PRUNI* Oud. n. sp. — On the young branches of *Prunus domestica*. Nunspeet, April 27, 1899; Mr. BEINS.

Stromata ad ramulorum superficiem numerosa, oblonga,  $\frac{1}{2}$  ad 1 centim. longa, 2 ad 3 mill. lata, juniora rufescens, vetustiora fuliginea, intermixtis nonnullis annulo fuliginoso ad ambitum inclusis, centroque rufescente, sub prominente. Includunt cavernulas plures indivisas, basidiis filiformibus, conidia quoad longitudinem subaequantibus, vestitas. Conidia partim cylindrica, ad polos rotundata, partim fusiformia, subacutata, semper hyalina, 2-vel pluriocellata.

#### FUSICOCCUM Corda.

41. FUSICOCCUM CORNI Oud. n. sp. — On the branches of *Cornus alba*. — Nunspeet, Sept. 15, 1899; Mr. BEINS.

Perithecia vulgo maculicola, sparsa, nigra, sub peridermate abscondita, p. m. prominentia,  $\frac{1}{3}$ — $\frac{1}{2}$  mill. in diam., tandem vertice perforata, plurilocularia, loculis septisque membranaceis; sporulae fusiformes, ad polos anguste-rotundatae,  $9-12 \times 2-3\frac{1}{2} \mu$ , continuae, hyalinae, eguttulatae; basidia acicularia, sporis duplo longiora.

#### CYTOSPORELLA Sacc.

42. CYTOSPORELLA QUERCUS Oud. n. sp. — On branches of *Quercus Robur*. — Valkenburg (L.); April 1900; Mr. J. RICK.

Stromata corticola numerosa, sparsa, polymorpha, saepe sinuosolimitata, verruciformi-depressa, 1 ad 3 cent. lata, intus fuscenscentia, incomplete pluricellularia, locellis quoad amplitudinem valde variabilibus; sporulae globulosae, hyalinae, ad basin subcontractae,  $9\frac{1}{3}-11\frac{2}{3} \mu$ , basidiis brevibus suffultae.

Diffr. a *C. Populi* Oud. (Ned. Kr. Arch. 2, V, 494; Sacc. Syll. X, 242) stromatibus multo robustioribus et sporulis multo majoribus ( $9\frac{1}{3}-11\frac{2}{3} \mu$  contra  $7 \mu$ ).

#### CYTOSPORA Ehrenberg.

43. CYTOSPORA DASYCARPI Oud. n. sp. — On the branches of *Acer dasycarpum*. — Scheveningen, May 1895; Bussum, April 1900; Mr. KONING.

Pustulae sparsae, quoad amplitudinem magnopere variabiles, convexae, primo clausae, postea, peridermate varie fisso, perviae. Stromata nigra, intus lacunosa, lacunis septis spuriis in loculamenta plurima inaequalia concentrica divisis. Sporulae fere globulosae, cum ellipticis et brevi-fusiformibus inaequaliter mixtae, continuae, hyalinae,  $1-3 \times 1-2 \mu$ , basidiis longis, tenerrimis suffultae.

44. CYTOSPORA FRAXINICOLA Oud. n. sp. — On the young, thin branches of *Fraxinus excelsior*. — the Hague, April 1889.

Differt a *C. Fraxini* Delacroix (Bull. de la Soc. mycol. de France, 1890, p. 184 et tab. XX fig. V; SACCARDO Syll. X, 245) basidiis multo longioribus ( $25 \mu$  contra  $10 \mu$ ) et sporulis angustioribus ( $7 \times 1\frac{1}{2} \mu$  contra  $7 \times 2\frac{1}{2} \mu$ ).

\*CYTOSPORA OPACA Oud. n. sp. — On the branches of *Ilex opaca*. Cf. N. K. A. 3, I, 492 et Hedw. XXXVII (1898) p. 177.

\*CYTOSPORA SELENESPORA Oud. n. sp. — On the branches of *Sorbus Aucuparia*. — Nunspeet, March 3, 1898; Mr. BEINS. — Cf. Ned. Kr. Arch. 3, I, 493.

#### CEUTHOSPORA Greville.

45. CEUTHOSPORA FRAXINICOLA Oud. n. sp. — On branches of *Fraxinus excelsior*. — Amsterdam, January 1877; O.

Stromata numerosa, inordinate distributa, primo occultata, tandem exposita laciniisque peridermatis rupti circumcincta. Perithecia caespitose aggregata, parte sua dimidia superiore rotundata libere prominentia, coriacea, nigra, sine ostioli vestigio. Sporulae minima, bacillares, hyalinae, simul cum magna mucilaginis copia ex variis evolutionis centris protrusae,  $4\frac{1}{3} \times 1\frac{1}{6} \mu$ , singulae basidio filiformi  $9 \mu$  p. m. longo suffultae.

Differt nostra a *C. Fraxini* Tognini (Seconda Contrib. micol. tosc. p. 10 et Sacc. Syll. IX, 510), cuius plena diagnosis adhuc desideratur, sporulis multo minoribus ( $4\frac{1}{3} \times 1\frac{1}{6} \mu$  contra  $6-7 \times 3 \mu$ ).

#### $\beta$ . Phaeosporae.

#### CONIOTHYRIUM Corda.

46. CONIOTHYRIUM LABURNIPHILUM Oud. n. sp. — On the leaves of *Cytisus Luburnum*. — Nunspeet, Oct. 1898; Mr. BEINS.

Maculae amphigenae, orbiculares, oblongae vel irregulares, 2 ad 10 mill. latae, primo saturate-fuscae, postea pallescentes, postremo albidae, pallide-purpureo-marginatae, fragillimae. Perithecia epiphylla, epidermide velata, numerosa, minima, diam.  $1/10$  mill. raro superantia, parte centrali paullo prominente et perforata. Sporulae breve ellipticae,  $4\frac{2}{3} \times 3\frac{1}{2} \mu$ , pallide-olivaceae, in mucilaginem dilutam immersae, continuae, eguttulatae.

Differt a *C. olivaceo* praesentia macularum, peritheciorumque nec minus sporularum mensuris reductis.

\*CONIOTHYRIUM PSAMMAE Oud. n. sp. — On the leaves of *Psamma littoralis* (= *Ammophila arenaria*). Cf. Hedw. XXXVII (1898) p. 177.

47. CONIOTHYRIUM PYXIDATAE Oud. n. sp. — On *Cladonia pyxidata*. — Valkenburg (L.) 1899; Mr. J. RICK.

Perithecia perfecte sphaerica, minutissima, vix  $\frac{1}{10}$  mill. in diam., nigerrima; sporulae globosae vel subglobosae, dilute-olivaceae, vix  $2\frac{1}{3}\ \mu$  in diam., laeves, continuae, basi sua applanata vel truncatiuscula basidio crassiusculo brevissimo imposita.

Differt a *C. lichenicola* Karst. Symb. XX, 104, sporulis minoribus ( $2\frac{1}{3}\ \mu$  contra  $3\ \mu$ ), neque ovoideo-oblongis vel clavulatis, neque basi attenuatis, neque fuligineis, basidiis tandem brevioribus ( $2\ \mu$  contra  $6\ \mu$ ); a *C. Cladoniae* Ell. Everh. Sacc. in Syll. X, 268, peritheciis fere duplo minoribus ( $\frac{1}{14}$  —  $\frac{1}{10}$  contra  $\frac{1}{6}$  mill.), non obconico-cylindraceis, supra subtruncatis, sporis dilutius tinctis, minoribus ( $2\frac{1}{3}$  contra  $3\ \mu$ ), basidiis multo brevioribus ( $2$  c.  $6\ \mu$ ).

48. CONIOTHYRIUM TAMARICIS Oud. n. sp. — On the thin branchlets of *Tamarix gallica*. — Nunspeet, Oct. 22, 1898; Mr. BEINS.

Perithecia numerosa, sparsa, parva ( $\frac{1}{10}$  —  $\frac{1}{8}$  mill.), globulosa, epidermide velata, prominentia, nigra. Sporulae ovatae, primo hyalinae, denique lutescentes,  $7 \times 3\frac{1}{2}\ \mu$ , guttula centrali elliptica insignes (Pl. IV, fig. 5).

Differt a *C. tamaricella* Brun. (Sacc. Syll. XIV, 923) sporulis pallidis neque „intense-olivaceis”, et longioribus ( $7\ \mu$  contra  $2\frac{1}{2}$  —  $6\ \mu$ ).

#### HAPLOSPORELLA Spegazzini.

49. HAPLOSPORELLA JUGLANDIS (Schum.) Oud. n. sp. (Naemaspora Juglandis Schumacher Flora Saellandiae II, 178; Cytospora Juglandis Rab. Kr. Fl. 148; Sacc. Syll. III, 267). — On the branches of *Juglans regia*. — Naaldwijk, Nov. 1866; the late Dr. J. E. VAN DER TRAPPEN.

Perithecia numero 4 ad 7 in stromate verruciformi, fere carbonisato, nigro, primo latente, postea in corticis vulnere large hiante, mill. 1 lato, peridermatis lacinii circumscineto, exposita. Sporulae globulosae ( $2\frac{1}{3}\ \mu$  in diam.) vel breve-ellipticae ( $4\frac{2}{3} \times 2\frac{1}{3}\ \mu$ ), continuae, fuliginosae, basidio brevi suffultae.

γ. *Hyalodidyma e.*

#### ASCOCHYTA Libert.

\*ASCOCHYTA ACORI Oud. n. sp. — On the leaves of *Acorus Calamus*. — Cf. N. K. A. 3, I, 496 et Hedw. XXXVII (1898) p. 177.

\*ASCOCHYTA EUPHRASIAE Oud. n. sp. — On the stems of *Euphr. officinalis*. — Nunspeet, March 11, 1898; Mr. BEINS. Cf. Ned. Kr. Arch. 3, I, 496.

\*ASCOCHYTA GROSSULARIAE Oud. n. sp. — On the branches of *Ribes Grossularia*. — Cf. N. K. A. 3, I, 497 et Hedw. XXXVII (1898) p. 178.

50. ASCOCHYTA HYPOCHOERIDIS Oud. n. sp. On the flower-stems of *Hypochoeris glabra*. Nunspeet, May 5, 1899; Mr. BEINS

Perithecia in maculis pallescentibus inordinate distributa, primo epidermide velata, prominentia, postea exposita, nigra, vertice perforata. Sporulae exacte cylindricae vel elongato-clavatae, ad polos rotundatae, vulgo rectae, rarius curvulae, hyalinae, imo quum in major rem copiam condensatae offenduntur, initio biocellatae, postea septo transversali dimidiatae. In sporulis clavatis pars anterior latior et paullo longior, pars posterior contra angustior et brevior (Pl. IV, fig. 6).

\*ASCOCHYTA IDAEI Oud. n. sp. — On the branches of *Rubus idaeus*. Cf. N. K. A. 3, I, 497 et Hedw. XXXVII (1898), p. 178.

51. ASCOCHYTA IGNobilIS Oud. n. sp. On the stems of *Alisma Plantago*, Nunspeet, March 13, 1898; Mr. BEINS.

Maculae nullae. Perithecia primo epidermide velata, postea exposita, nigra, orbiculari-depressa, vertice perforata,  $125-170 \mu$  in diam. Sporulae cylindraceae, ad polos rotundatae, hyalinae,  $9-12 \times 3 \mu$ , indistincte biocellatae, per longius tempus continuae, denique septo transversali aegre visibili, iodo addito vero mox optime distinguendo, dimidiatae.

*A. ignobilis* differt ab *A. Alismatis* Ellis et Everhart, Journ. of Mycol. 1889, p. 148 et Sacc. Syll. X, 307, quae in foliis offenditur, absentia macularum, peritheciis multo majoribus, sporulis paulo minoribus, praedilectione pro foliis.

52. ASCOCHYTA LACTUCAE Oud. n. sp. — On the flower-stems and their ramifications of *Lactuca sativa*. — Naaldwijk, 1874; the late Dr. J. E. VAN DER TRAPPEN.

Perithecia in caespites aggregata, globuloso-depressa, epidermide velata, tandem exposita, nigra, vertice perforata,  $1\frac{1}{7}-1\frac{1}{6}$  mill. in diam. Sporulae oblongae, hyalinae, ad polos rotundatae, biloculares,  $12-15 \times 3\frac{1}{2} \mu$ , medio superficialiter constrictae.

53. ASCOCHYTA LEDICOLA Oud. n. sp. — On the leaves of *Ledum palustre*, together with *Thoracella Ledi* Oud. — Nunspeet, Sept. 29, 1898; Mr. BEINS.

Perithecia epiphylla, parum numerosa, inordinate distributa,  $\frac{1}{8}$  mill. in diam., tandem vertice perforata. Sporulae fusiformes, hyalinae, ad polos acutae, biloculares, vix medio constrictae,  $7-11 \times 2 \mu$ .

*Ascochyta Ledi* Rostrup (Sacc. Syll. X, 295), in *caulibus Ledi palustris degens*, sporulas fert oblongas, ad polos rotundatas, voluminosiores ( $12-13 \times 3 \mu$ ).

54. ASCOCHYTA LYSIMACHIAE Oud. n. sp. — On the stems of *Lysimachia thyrsiflora*, in company with *Phoma thyrsiflorae*. — Nunspeet, April 15, 1898; Mr. BEINS.

Maculae nullae. Perithecia laxe caespitosa, sub epidermidis portioncula nigricante, in longitudinem protracta, p. m. prominente occultata,  $\frac{1}{8}$  mill. in diam. Sporulae oblongae, ad polos rotundatae, hyalinae, bilocellatae, eguttulatae, medio non constrictae,  $7-9\frac{1}{3} \times 2\frac{1}{3} \mu$ . Basidia ter longiora quam sporulae.

55. ASCOCHYTA MENYANTHIS Oud. n. sp. (non Lasch, neque Libert, quae ambae sub genere *Septoria* militant). — On the leaves of *Menyanthes trifoliata*, in company with *Septoria Menyanthis*.

Perithecia amphigena, vulgo tamen hypogena, una cum peritheciis *Septoriae Menyanthis* in maculis fuscis, satis extensis, polymorphis irregulariter distributa. Sporulae breve-cylindraceae, hyalinae, ad polos rotundatae,  $14-19 \times 2\frac{1}{3}-3\frac{1}{2} \mu$ , biloculares, loculis nitide 1- vel 2-ocellatis. Septum, vulgo p.m. obscurum, iodo addito statim conspicuum fit.

\*ASCOCHYTA MATTHIOLAE Oud. n. sp. — On the pods of *Matthiola incana*. — Cf. N. K. A. 3, I, 497 et Hedw. XXXVII (1898) p. 178.

\*ASCOCHYTA MISERA Oud. n. sp. — On the leaves of *Crataegus monogyna*. — Cf. N. K. A. 3, I, 497 et Hedw. XXXVII (1898) p. 178.

\*ASCOCHYTA MYRTILLI Oud. n. sp. — On the dried sprigs of *Vaccinium Myrtillus*. — Cf. Hedw. XXXVII (1898), p. 317.

(To be continued).