Lichenes ab A. Yasuda in Japonia collecti. Continuatio I.

Scripsit

Dr. Edv. A. Wainio.

1. **Usnea molliuscula** WAIN. (sp. n.).

Thallus prostratus, sat mollis, long. circ. 80 mm, basi crass. 1–0,5 mm, teres, cinerascenti stramineo-glaucescens, sympodialiter et dichotome ramosus, soraliis minutis aut sat minutis, crebris totus inspersus, ceterum lævigatus. Axis chondroideus tenuis. Stratum myelohyphicum laxè contextum, album, KHO supra axem vix distincte lutescens.

Prov. Harima (232). Ad corticem *Bini*. Ster.

2. **Usnea diffracta** WAIN. (sp. n.).

Thallus prostratus, fragilis, basi crass. 1–0,6 mm, teres, dichotome et sympodialiter ramosus, stramineo-glaucescens, lævigatus, sorediis et verruculis et spinulis destitutus, transversim rimosus articulatusve, facile diffractus. Axis chondroideus tenuis. Stratum myelohyphicum crebre contextum, albidum, KHO non reagens.

Prov. Kushiro (231). Ad corticem *Betulæ*. Ster.

3. **Usnea aciculifera** WAIN. (sp. n.).

Thallus subpendulus aut arbusculiformis, sat mollis, basi crass. 0,8–0,6 mm, teres, dichotome et sympodialiter ramosus, stramineus aut glaucescens, verruculis spinuloso-acutatis, brevissimis (0,1–0,3 mm longis), et verruculis subsorediosis minutissimis maxima parte variegatim mixtimque creberrime instructus. Axis chondroideus tenuis aut sat tenuis. Stratum myelohyphicum crebre contextum, KHO lutescens fulvescensve.

Prov. Kōzuke (195) et Mimasaka (233). In arboribus. Ster.

4. **Usnea ceratinella** WAIN. (sp. n.).

Thallus prostrato arbusculiformis, sat mollis, basi crass. 1–0,8 mm, teres, dichotome et sympodialiter ramosus, stramineo-glaucescens

aut demum pallido-rubescens, verruculis minutis subsorediosis sat crebris et apices versus soraliis modice dilatatis et minutis crebris instructus, ramis adventitiis brevibus numerosissimis crebrisque ornatus. Axis chondroideus sat crassus. Stratum myelohyphicum crebre contextum, partim aut maculatim croceo rubescens, in apicibus albidum.

Prov. Rikuzen (230). In ramis arboris. Ster.

5. **Usnea croceorubescens** WAIN. (sp. n.).

Thallus arbusculiformis, sat mollis, basi crass. 1,5–1 mm, teres, dichotome et sympodialiter ramosus, stramineo-glauescens aut partim glaucescenti-rubescens, haud rugosus, spinulis brevissimis parcissimis aut vix ullis, verruculis minutissimis, haud distincte sorediosis, crebris instructus, at basin versus lævigatus, inderdum apices versus ramis adventitiis brevibus ornatus. Axis chondroideus tenuis. Stratum myelohyphicum crebre contextum, partim croceo-rubescens.

Prov. Kushiro (234). In arbore. Ster.

6. **Usnea roseola** WAIN. (sp. n.).

Thallus arbusculiformis, sat mollis, basi crass. 1,5–1 mm, teres, dichotome et sympodialiter ramosus, glaucescens, haud rugosus, soraliis crebris, modice dilatatis aut partim verruculæformibus instructus, aliis verruculis vix ullis. Axis chondroideus sat tenuis. Stratum myelohyphicum crebre contextum, dilutissime roseum.

Prov. Rikuzen, Sendai (138). In arbore. Ster.

7. **Usnea creberrima** WAIN. (sp. n.).

Thallus asbusculiformis, rigidus, basi crass. 1,2–1 mm, teres, haud rugosus, dichotome et sympodialiter usque ad apicem creberrime ramosus, sæpe passim etiam ramis adventitiis brevibus ornatus, verruculis crebris minutis parce subsorediosis instructus, soraliis veris destitutus, basin versus lævigatus. Axis chondroideus crassus. Stratum myelohyphicum crebre contextum, ochraceo-roseum.

Prov. Rikuzen, Yuriage (137). Ad corticem *Pini Thunbergii*. Ster.

8. **Oropogon loxensis** (FÉE) TH. FR.

Prov. Ishikari, mons Daisetsu (225). In arbore. Ster.

9. **Alectoria ochroleuca** (EHRH.) NYL.

Thallus superne et intus KHO addito CaCl_2O_2 lutescens.

Prov. Ishikari, mons Daisetsu (224).

10. **Ramalina intermediella** WAIN. (sp. n.).

Subsimilis *R. subfarinaceae* NYL., sed medulla KHO non reagente ab ea differens. Thallus cæspites 20–30 mm altos formans, dichotome sat crebre ramosus, sublinearis, compressus, solidus, laciniis basin

versus 0,8–0,3 mm latis, apicem versus sensim attenuatis et filiformibus, albido-stramineis, sat lævigatis, soraliis parvis, marginalibus.

Prov. Inaba (150). Ad corticem arboris.

11. **Thamnolia vermicularis** (L. FIL.) ACH.

Prov. Ishikari, mons Ishikari (220).

12. **Siphula cladonioides** WAIN. (sp. n.).

Thallus foliaceus, long. circ. 5, lat. 3–5 mm, sæpe convolutus, irregulariter lobatus, crass. 0,2–0,3 mm, superne cinereo-glauescens, inferne pallidus, KHO non reagens. *S. torulosa* (THUNB.) thallo subtus albido, KHO superne et inferne flavescente ab hac specie differt.

Prov. Kōzuke, mons Myōgi (142). In rupe.

13. **Cetraria hiascens** (FR.) TH. FR.

Prov. Ishikari, mons Chūbetsu (214).

14. **Cetraria juniperina** (L.) FR.

Prov. Shinano, mons Yatsugatake (144). Ad corticem *Pini pumilæ*.

15. **Cetraria citrina** TAYL.

Prov. Ishikari, mons Dāisetsu (212).

16. **Cetraria cucullata** (BELL.) ACH.

Prov. Ishikari, mons Ashibetsu (213).

17. **Parmelia hyporysaea** WAIN. var. **cinerascens** WAIN.

Medulla KHO non reagens, CaCl_2O_2 rubescens. Thallus superne pseudocyphellis destitutus, qua nota differt a *P. rubescens* (TH. FR.), quæ est *P. olivetorum* NYL. (haud ACH.). Thallo superne cinerascens recedit a *P. olivetorum* var. *hyporysaea* WAIN. (in Lich. Welw. p. 399), quæ autonoma est species.

Prov. Awaji, mons Mikuma (140 p.p.). Ad corticem arboris.

18. **Parmelia inactiva** (ZÄHLBR.) WAIN. *P. tinctorum* var. *inactiva* ZÄHLBR. Lich. Sam. p. 50.

Thallus superne isidiosus, CaCl_2O_2 non reagens, KHO addito CaCl_2O_2 intus rubescens.

Prov. Nagato (190).

19. **Parmelia Borreri** TURN.

Thallus KHO superne flavescent, intus non reagens. Medulla CaCl_2O_2 non reagens, nequidem addito KHO. Soralia supra laminam thalli evoluta. Huc non pertinet *P. dubia* (WULF.) ARN. Lich. Exs. n. 876.

Prov. Kōzuke (131). In rupe.

20. **Parmelia ruderata** WAIN. (sp. n.).

Thallus superne albo-punctatus isidiosusque, isidiis applanatis,

subtus sordide albicans, ad ambitum sat anguste rhizinis destitutus, KHO superne demum dilute flavescens, intus non reagens, at CaCl_2O_2 rubescens. Proxima est *P. rudectæ* ACH., cujus thallus subtus fuscescenti-pallidus aut subtestaceus.

Prov. Inaba, mons Iō (145). Ad corticem arboris. Ster.

21. ***Parmelia isidioclada*** WAIN. (sp. n.).

Thallus irregulariter laciniatus, margine crenulatus isidiosusque, isidiis tenuissimis brevissimisque, partim granuliformibus, laciniis 5–1 mm latis, superne cinereo-glaucescens, opacus, sat lævigatus, subtus albidus pallidusve aut medium versus obscuratus, rhizinis parvis brevibusque instructus, ambitum versus glaber, KHO superne non reagens, intus intense lutescens, deinde rubescens, CaCl_2O_2 non reagens. Affinis *P. rudectæ* ACH. et *P. laceratulæ* NYL.

Prov. Mimasaka (210). Ad corticem arboris. Ster.

22. ***Parmelia cetrata*** ACH. var. ***sorediifera*** WAIN.

Prov. Awaji, mons Mikuma (140 p.p.). Prov. Kushiro, Akkeshi (207). Ad corticem arborum. Ster.

23. ***Parmelia lævior*** NYL. Lich. Jap. p. 28.

Prov. Kōzuke (141). Ad corticem arboris. Fert.

24. ***Parmelia petrophila*** WAIN. (sp. n.).

Thallus irregulariter laciniatus, laciniis brevibus, crebris, 1,5–0,5 mm latis, irregulariter foveolato-inæqualibus, albido-glauculentibus, nitidis, imbricato-confertis, laxè adpressis, subtus nigricans, rhizinis concoloribus, brevibus, sat parvis, KHO superne vix distincte flavescens, intus lutescens deindeque rubescens, sorediis et isidiis destitutus. Affinis *P. saxatili* (L.) ACH. Ster.

Prov. Kii (193). In rupe.

25. ***Parmelia americana*** (MEY. et FLOT.) MONT.

Ins. Formosa (208).

26. ***Parmelia abstrusa*** WAIN. Étud. Lich. Brés. p. 64.

Ins. Formosa (209). Ad corticem arboris.

27. ***Parmelia conspersa*** (EHRH.) ACH. f. ***polita*** FLOT. et f. ***coralloidea*** FLOT.

Prov. Harima (191). In rupe.

28. ***Parmelia pubescens*** (L.) WAIN. var. ***reticulata*** (WULF.) WAIN.

Prov. Kaga, mons Hakusan (135). In rupe. Fert.

29. ***Anzia leucobatoides*** (NYL.) WAIN. *Parmelia* NYL. Lich. Nov. Zel. (1888) p. 28.

Prov. Iwashiro (152). Fert.

30. **Anzia colpota** WAIN. (sp. n.).

Thallus sat crebre dichotome laciniatus, laciniis 2–0,7 mm latis, apice planis, ceterum convexis, albido-glauculentibus aut apicem versus pallidis, KHO superne lutescens, intus non reagens, subtus nigricans, rhizinis parcissimis, concoloribus. Thallo crassiore, KHO superne reagentem a *Parmelia colpode* ACH. differt.

Prov. Rikuzen, Gamō (248). Ad corticem arboris.

31. **Lecanora diplotypa** WAIN. (sp. n.).

Thallus modice incrassatus, areolatus, areolis angulosis, subcontiguus, circ. 0,5–0,3 mm latis, planis, stramineis, nudis, subnitidis, lævigatis, fere squamulæformibus, ad ambitum, haud distincte effiguratus, hypothallo indistincto. Apothecia partim crebra, adnata, basi constricta, lat. 0,4–0,9 mm, tenuia, disco pallido vel subtestaceo-pallido, nudo, subnitido, lævigato, plano, margine tenui, haud prominente, stramineo, subintegro aut leviter crenulato. Hypothecium albidum, ex hyphis erectis formatum. Basis apothecii KHO demum fulvo-rubescens. Hymenium 0,050 mm crassum, jodo cærulescens. Epithecium testaceo-pallidum. Paraphyses arcte cohærentes, haud distincte septatæ. Sporæ 8-næ, distichæ, ellipsoideæ, apicibus rotundatis aut raro obtusis, simplices, long. 0,009–0,006, crass. 0,006–0,004 mm. Affinis est *L. polytropæ* NYL., ad *Squamarias* accedens.

Prov. Kōzuke, mons Nabewari (321). In rupe.

32. **Lecanora leptocheila** WAIN. (sp. n.).

Thallus tenuis, sat continuus aut minute areolato-diffractus, lævigatus, albido-cinereus, KHO non reagens. Apothecia dispersa, emergenti-adnata, basi parum constricta, lat. 0,6–0,3 mm, tenuia, disco fusco, nudo, opaco, plano, margine tenuissimo, cinerascens, sat integro, subpersistente, haud prominente. Hypothecium albidum. Hymenium circ. 0,120 mm crassum, jodo persistenter cærulescens. Paraphyses arcte cohærentes, crass. 0,001 mm. Epithecium dilute rubricosum-rufescens. Sporæ 8-næ, distichæ, decolores, ellipsoideæ aut oblongæ, apicibus rotundatis aut obtusis, simplices, long. 0,016–0,014, crass. 0,012–0,007 mm. Affinis *L. dispersæ* NYL.

Prov. Kōzuke (352). In rupe.

33. **Lecanora galactinula** WAIN. (sp. n.).

Thallus modice incrassatus, areolatus, areolis contiguus aut partim subdispersis, circ. 0,3–0,2 mm latis, planis aut pr. p. convexis, angulosis aut rotundatis, albido-cinereus, KHO non reagens. Apothecia crebra, adnata, basi leviter constricta, lat. 0,35–0,25 mm, tenuia, disco rufo, nudo, sat opaco, plano, margine tenui, albido-

cinerascente, integro aut minutissime crenulato, haud prominente. Hypothecium decoloratum. Hymenium jodo cærulescens. Epithecium rubricoso-rufescens. Sporæ 8-næ, subdistichæ, decolores, ellipsoideæ, apicibus rotundatis aut obtusis, simplices, long. 0,009–0,007, crass. 0,005–0,004 mm. *L. galactiniza* NYL. (CROMB. Lich. Cap. p. 173) huic speciei habitu est similis, at thallo KHO flavescente et apotheciis 0,3–0,5 mm latis ab ea differt, affinis *L. campestri* (SCHÆR.). *L. galactinella* NYL. -(l.c.) apotheciis a thallo parum prominentibus et margine integro a planta nostra distinguitur.

Prov. Kōzuke (358). In rupe.

34. *Lecanora rufoalbida* WAIN. (sp. n.).

Thallus modice incrassatus, areolatus, areolis contiguis aut parce subdispersis, 0,6–0,2 mm latis, angulosis aut rotundatis, leviter convexis, albido-cinerascentibus, lævigatis, parum nitidis, KHO non reagentibus, hypothallo nigricante limitatus. Apothecia sparsa et partim crebra, basi constricta, tenuia, lat. 0,9–0,5 mm, disco rufo, nudo, opaco, margine tenui, albido, subintegro, haud prominente. Sporæ decolores, ellipsoideæ, simplices, long. 0,012–0,014, crass. 0,006 mm (sec. YASUDAM). Apotheciis et sporis majoribus differt a *L. galactinula* WAIN.

Prov. Kōzuke (333). In rupe.

35. *Lecanora aggregans* WAIN. (sp. n.).

Thallus areolatus, areolis dispersis, 0,5–0,2 mm latis, sat crassis, leviter convexis, fere verrucæformibus, albido-cinerascentibus aut cinereis, KHO non reagentibus, hypothallo obscurato parum evoluto. Apothecia lat. 0,2–0,3 mm, sæpe aggregata contiguaque, acervulis sparsis, tenuissima, basi parum constricta, sæpe flexuosa, disco rufescente aut testaceo, nudo, margine tenuissimo, subintegro. Hypothecium pallidum. Epithecium pallidum, KHO non reagens. Paraphyses crass. 0,0005 mm, increbre ramoso-connexæ. Asci clavati, long. circ. 0,070, crass. 0,018 mm. Sporæ 8-næ, monostichæ aut distichæ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. 0,010–0,006, crass. 0,006–0,0045 mm. Gonidia pleurococcacea.

Prov. Kōzuke, mons Nabewari (356). In rupe.

36. *Lecanora glaucodeella* WAIN. (sp. n.).

Thallus sat tenuis, verruculosus, verruculis 0,1–0,15 mm latis, convexis, sparsis et partim contiguis, partim farinoso-sorediosus, stramineus aut stramineo-glauescens, hypothallo indistincto. Apothecia lat. 0,9–0,6 mm, sparsa, modice incrassata, basi constricta, disco livido-pallescente, tenuiter pruinoso, margine modice incrassato,

rotundato convexo, integro aut verruculoso, thallo concolore. Hypothecium albidum. Hymenium circ. 0,1 mm crassum, jodo persistenter cærulescens. Epithecium dilutissime subrufescens. Paraphyses arcte cohærentes, crass. 0,0015 mm, apice leviter incrassatæ, increbre septatæ. Sporæ 8-næ, subdistichæ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. 0,010–0,008, crass. 0,007–0,005 mm. Affinis *L. glaucolutescenti* NYL. et *L. glaucodeæ* NYL.

Prov. Kōzuke (354). In rupe.

37. *Lecanora conspersa* WAIN. (sp. n.).

Thallus modice incrassatus, areolatus, areolis contiguis aut dispersis, vulgo leviter aut demum bene convexis, flavido-stramineis, lævigatis, subnitidis, esorediatis, hypothallo indistincto. Apothecia lat. 0,7–0,5 mm, sparsa, tenuia, basi leviter constricta, disco plano, testaceo aut rufescenti-testaceo, nudo, subnitido, lævigato, margine tenui, leviter crenulato, haud prominente, thallo concolore. Epithecium rufescens. Sporæ 8-næ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. 0,010–0,009, crass. 0,007–0,005 mm. Affinis *L. perspersæ* NYL. et *L. chlorophæodi* NYL.

Prov. Kōzuke (339). In rupe.

38. *Lecanora pseudisterella* WAIN. (sp. n.).

Thallus crassus aut modice incrassatus, continuus aut areolatus aut demum rimoso-diffractus, verruculoso-inæqualis, albido-cinerascens vel subalbidus, sat opacus, KHO flavescens. Apothecia lat. 0,7–0,4 mm, primum subimmersa, demum emergentia et basi levissime constricta, tenuia, disco plano aut leviter convexo, rufo, nudo, opaco, lævigato, margine tenui, haud prominente, subintegro, albido. Hypothecium albidum. Hymenium jodo persistenter cærulescens. Epithecium rufescens. Sporæ 8-næ, distichæ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. 0,010–0,007 (–0,013 mm, observante YASUDA), crass. 0,007–0,005 mm. Proxima est *L. galactinizæ* NYL. (CROMB. Lich. Cap. p. 173), quæ apotheciis adhuc minoribus et thallo tenuiore ab ea differt. *L. pseudistera* NYL. apotheciis paullo majoribus ab his recedit, at minoribus quam ia *L. campestri* (SCHÆR.) instructa est. *L. expansa* (ACH.) sec. herb. ACH. apotheciis fere sicut in *L. pseudistera* NYL. et ab ea vix distinguenda.

Prov. Iwashiro, mons Iide (318). In rupe.

39. *Lecanora subimmergens* WAIN. (sp. n.).

Thallus modice incrassatus, lævigatus, areolato-diffractus, areolis minutis, albido-cinerascens, opacus, KHO lutescens, dein fulvescens, hypothallo indistincto. Apothecia lat. 0,8–0,5 mm, diu immersa,

demum leviter emergentia, basi haud constricta, disco plano aut raro demum convexo, rufo, nudo, leviter nitido, lævigato, margine integro aut raro flexuoso, haud prominente, tenui. Hypothecium pallidum. Hymenium circ. 0,070 mm crassum, jodo persistenter cærulescens. Epithecium rufescens. Paraphyses arcte cohærentes, crass. 0,0015 mm, apice haud incrassatæ. Sporæ 8-næ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. circ. 0,007–0,006, crass. 0,006–0,005 mm. Thallo lævigato et apotheciis minus emergentibus a specie præcedente differt.

Prov. Kōzuke (355). In rupe.

40. **Lecanora gallifera** WAIN. (sp. n.).

Thallus modice incrassatus, continuus aut diffractus, verruculoso-inæqualis, albido-cinereascens, KHO non reagens, sæpe tuberculis hemisphæricis 3,5–0,6 mm latis, morboris sparsis instructus, hypothallo indistincto. Apothecia lat. 2–1,2 mm, elevata, basi bene constricta, disco plano, rufescente, nudo, opaco, margine sat crasso, sublobulato crenato, modice prominente. Hypothecium albidum, a hymenio haud distincte limitatum. Paraphyses arcte cohærentes, apice leviter incrassatæ. Sporæ 8-næ, distichæ aut monostichæ, decolores, simplices, ellipsoideæ, apicibus rotundatis, long. 0,016–0,010, crass. 0,007–0,005 mm. Habitu inter *L. intumescens* et *L. allophanam* intermedia est.

Prov. Kōzuke, mons Akagi (346). Ad corticem arboris.

41. **Lecanora cinereocarpa** (ESCHW.) WAIN.

Prov. Kii (349). Ad corticem arboris.

42. **Lecanora atra** (HUDS.) ACH.

Prov. Kōzuke, mons Akagi (323). Ad corticem arboris.

43. **Lecanora (Aspicilia) decorata** WAIN. (sp. n.).

Thallus crassus (1–6 mm), inæqualiter incrassatus, ceterum lævigatus, diffractus, stramineus, partim demum obscuratus, KHO + CaCl_2O_2 superne lutescens, intus jodo non reagens. Apothecia lat. 0,7–4 mm, thallo immersa aspicilioideæ aut raro demum emergentia et margine thallino basi constricto instructa, disco nigro, nudo, nitido, haud impresso. Hypothecium stramineo-pallidum albidumve. Hymenium crassit. 0,080–0,110 mm, jodo cærulescens. Epithecium cæruleo-æruginosum (KHO sordide olivaceum aut olivaceo-smaragdulum), strato gelatinoso 0,010–0,006 mm crasso decolore lævigatoque obductum. Paraphyses arcte cohærentes, simplices, crass. 0,0015 mm, apice capitatae 0,004–0,005 mm crassæ. Sporæ 8-næ, distichæ,

decolores, simplices, ellipsoideæ apicibusque rotundatis aut subglobosæ, long. 0,011–0,015, crass. 0,006–0,009 mm.

Prov. Shinano, mons Yatsugatake (130). In rupe.

44. *Lecanora cinerea* (L.) SOMMERF.

Prov. Kōzuke, mons Nabewari (347). In rupe.

45. *Lecanora gibbosa* (ACH.) NYL.

Prov. Kōzuke (322). In rupe.

46. *Lecanora calcarea* (L.) SOMMERF. var. *Hoffmanni* (ACH.) SOMMERF.

Prov. Kōzuke (257, 303). In rupe.

47. *Lecanora phymatodiscus* WAIN. (sp. n.).

Thallus modice incrassatus, lævigatus, crebre areolato-rimosus, cervinus vel pallide cinereo-fuscescens, opacus, nec KHO nec jodo reagens, hypothallo indistincto. Apothecia thallo immersa, disco 0,3–0,2 mm lato, subanguloso difformive, impresso, nigro, opaco, nudo, verruca depressa instructo. Hypothecium albidum. Hymenium jodo cærulescens. Epithecium rufescens. Paraphyses crass. 0,001 mm, crebre septatæ, parce ramoso-connexæ, gelatinam abundantem percurrentes. Sporæ 8-næ, distichæ, ellipsoideæ, decolores, simplices, long. 0,020–0,024, crass. 0,009–0,010 mm. *L. griseolam* TH. FR. in memoriam revocans.

Prov. Kōzuke, mons Akagi (320). In rupe.

48. *Lecanora coiliodes* WAIN. (sp. n.).

Thallus modice incrassatus, verruculoso-inæqualis aut verrucoso-areolatus, partim subdispersus, stramineus, opacus, KHO non reagens, hypothallo indistincto. Apothecia verrucis immersa, disco 0,2–0,5 mm lato, bene impresso, atro, nudo. Hypothecium albidum. Hymenium 0,050–0,055 mm crassum, jodo cærulescens. Epithecium olivaceum, KHO rufescens. Paraphyses arcte cohærentes, crass. 0,001 mm, apice 0,003 mm crebre septatæ, in KHO laxè cohærentes. Sporæ distichæ, decolores, ellipsoideæ, simplices, long. circ. 0,016, crass. 0,010 mm. Affinitate incerta.

Prov. Kōzuke (353). In rupe.

49. *Placopsis pacifica* WAIN. (sp. n.).

Thallus sat lævigatus, ad ambitum breviter laciniatus, medium versus late soresiosus, soraliis confluentibus, haud prominentibus, soraliis erasis demum leproso-verruculosus. Cum *Pl. gelida* ab auctoribus nonnullis commixta. Etiam e Nova Zelandia (a L. LINDSAY lecta) in herb. NYL. sub hoc nomine adest.

Prov. Iwashiro, mons Bandai (164). In rupe.

50. **Ochrolechia pallescens** NYL. (variatio aut autonoma species).

KHO addito CaCl_2O_2 thallus superne rubescens et intus lutescens, margo apothecii superne et intus rubescens, discus rubescens. CaCl_2O_2 solo non reagentes. Nimis parce lecta.

Prov. Kōzuke, mons Nabewari (236). In rupe.

51. **Ochrolechia orientalis** WAIN. (sp. n.).

Margine apotheciorum extus verrucoso differt ab *O. upsaliensi* (L.), quæ reactionibus ei est similis. Planta in Lich. YASUD. Jap. p. 2 hoc nomine determinata ad *O. orientalem* pertinet.

Prov. Hōki, mons Daisen (99). Ad corticem arboris.

52. **Ochrolechia Yasudæ** WAIN. Lich. YASUD. Jap. (1918) p. 2.

Thallus et margo et discus apotheciorum nec KHO nec CaCl_2O_2 reagens. Thallus isidiis crebris, brevibus, partim verrucæformibus. Margine apotheciorum transversim striato aut sat lævigato.

Prov. Kōzuke, mons Akagi (156 p.p.). Ad corticem arboris.

53. **Ochrolechia akagiensis** YASUDA in litt.

Thallus modice incrassatus, verruculoso-inæqualis, albido-cinereus, KHO addito CaCl_2O_2 lutescens maculis parvis rubris. Margo et discus apotheciorum his reagentiis rubescens, CaCl_2O_2 dilute rubescens. Apothecia lat. 1,5–1 mm, disco pallido, pruinoso, margine modice incrassato, prominente, sat lævigato. Sporæ observante cel. YASUDA long. 0,065–0,067, crass. 0,020–0,022 mm.

Prov. Kōzuke, mons Akagi (156 a). Supra muscos destructos.

54. **Ochrolechia diademata** WAIN. (sp. n.).

Thallus sat crassus, albido-cinereus, isidiis crebris, brevibus, 0,15–0,25 mm crassis, partim verrucæformibus instructus, sorediis destitutus, KHO addito CaCl_2O_2 rubescens. Margo et discus apotheciorum eodem modo reagentes. KHO et CaCl_2O_2 solo haud reagentes. Apothecia lat. 1,5–1 mm, disco albido-pruinoso, margine bene prominente, crebre abundanterque verruculoso. Affinis *O. akagiensi* et *O. Yasudæ* quibuscum crescit.

Prov. Kōzuke, mons Akagi (156 b). Ad corticem vetustum arboris.

55. **Pertusaria (Lecanorastrum) flavosulphurea** WAIN. (sp. n.).

Thallus modice incrassatus, leviter verruculoso-inæqualis, stramineo-flavescens (intus albus), opacus, KHO non reagens, at addito CaCl_2O rubescens, soraliis prominentibus, 0,5 mm latis, albis.

Prov. Harima, mons Hokke (174). In rupe.

56. **Pertusaria perfida** NYL. Lich. Nov. Zel. (1888) p. 69.

Thallus et discus KHO non reagens (etiam in orig. NYL.).

Prov. Kōzuke (360). In rupe.

57. ***Pertusaria subfallens* WAIN.** (sp. n.).

Thallus modice incrassatus, lævigatus aut partim rugosus, cinereo-glauescens, leviter nitidus, KHO addito CaCl_2O_2 intus lutescens. Pseudostromata KHO addito CaCl_2O_2 extus et intus lutescentia, apothecia solitaria aut raro plura continentia. *P. commutatæ* et *P. variolosæ* subsimilis.

Prov. Kōzuke, mons Akagi (294, 297). Ad corticem arborum.

58. ***Pertusaria velatula* WAIN.** (sp. n.).

Thallus modice incrassatus, sat lævigatus aut inæqualis, albido-glauescens aut cinerascens, parum nitidus, KHO non reagens, at addito CaCl_2O_2 lutescens et demum rubescens. Pseudostromata apothecia solitaria continentia, KHO non reagentia, at addito CaCl_2O_2 intus lutescentia et demum rubescentia. Sporæ solitariae, oblongæ, long. 0,140–0,160, crass. 0,035–0,045 mm, membrana haud striata (observante cel. YASUDA). Affinis *P. velatæ*.

Prov. Kōzuke, mons Akagi (295). Ad corticem arboris.

59. ***Pertusaria vaginatula* WAIN.** (sp. n.).

Thallus modice incrassatus, sat lævigatus, cinerascens, nec jodo, nec KHO, nec CaCl_2O_2 reagens. Pseudostromata apothecia solitaria aut pauca continentia, intus KHO addito CaCl_2O_2 leviter rubescentia. Affinis *P. subvaginata* NYL.

Prov. Kōzuke, mons Akagi (299). Ad corticem arboris.

60. ***Pertusaria leucosora* NYL.**

Prov. Kōzuke, mons Nabewari (301). In rupe.

61. ***Pertusaria* (*Porophora*) *pustulata* (ACH.) NYL.**

Prov. Inaba (176). Ad corticem arboris.

62. ***Pertusaria stenostoma* WAIN.** (sp. n.).

Thallus tenuis, sat lævigatus aut leviter verruculoso-inæqualis, albido-cinerascens, nec KHO nec CaCl_2O_2 reagens. Pseudostromata sat crebra, verrucas formantia subhemisphæricas aut diffformes, 0,5–1,2 mm latas, basin versus leviter dilatatas aut sat abruptas, apothecia solitaria continentia aut rarius 2–3 confluentia, nec KHO nec CaCl_2O_2 reagentia, disco leviter impresso, nigricante, anguloso-rotundato aut sæpe oblongo difformive, lat. 0,1–0,15, long. 1–0,1 mm. Sporæ 8-næ–2-næ, oblongæ, long. 0,064–0,080, crass. 0,026 mm, membrana 0,003–0,004 mm crassa, haud striata. Facie externa *P. pustulatam* in memoriam revocans.

Prov. Hōki, mons Daisen (173). Ad corticem arboris.

63. **Pertusaria lævis** KNIGHT; MÜLL. ARG. Lich. Beitr. n. 771, Consp. Lich. Nov. Zel. p. 54.

Prov. Kōzuke (277). Ad corticem arboris.

64. **Pertusaria conformis** WAIN. (sp. n.).

Sporis 8-nis, sec. YASUDAM 0,160–0,200 mm longis, 0,050–0,062 mm crassis, membrana laud striata differt a *P. subobductante* NYL., Lich. Jap. p. 54. Thallus et pseudostromata extus laud reagentia, intus lutescentia deindeque (præsertim zona gonidiali) subrubescens vel aurantiaco-rubescens. Habitu *P. leioplacæ* similis est.

Prov. Kōzuke (286). Ad corticem arboris.

65. **Pertusaria corallina** (L.) ARN.

Prov. Inaba (134). In rupe.

66. **Pertusaria cinereoobscurata** WAIN. (sp. n.).

Thallus crassus aut sat crassus (1–0,2 mm), inæqualis, obscure cinereus, nec KHO nec CaCl_2O_2 reagens. Pseudostromata valde difformia, tuberculosa, 1–6 mm lata, 0,5–2,5 mm alta, inæqualia, aut parum conspicua et vix prominentia, intus demum leviter lutescentia et maculis dilutissime sordide rubescentibus, apothecia numerosa aut solitaria continentia, verrucis leviter prominentibus indicata, disco inconspicuo. Sporæ sec. cel. YASUDAM 4-næ, long. 0,115–0,175, crass. 0,043–0,060 mm, membrana lævigata. Ad sect. *Irregulares* MÜLL. ARG. pertinet.

Prov. Kōzuke, mons Akagi (283). Ad corticem arboris.

67. **Pertusaria conferta** WAIN. (sp. n.).

Thallus modice incrassatus aut sat crassus, leviter inæqualis, cinerascens aut sordide albicans, KHO zona gonidiali partim rubescens, parum visibilis, pseudostromatis crebris instructus. Pseudostromata tuberculiformia, 1–0,2(–2) mm lata, irregularia, crebra contiguaque aut subconfluentia, lateribus sæpe præruptis, raro basi leviter constricta, zona gonidiali KHO partim rubescens. Sporæ “binæ, long. 0,130–0,165, crass. 0,030–0,045 mm, membrana lævigata” (sec. cel. YASUDAM). *P. subobductans* NYL. var. *cinereoglauca* WAIN. reactione thalli ab ea differt.

Prov. Kōzuke (287, 291, 292). Ad corticem arborum. N. 283 ad formam *obscurierem* WAIN., thallo intense cinereo instructam, pertinet.

68. **Pertusaria petrophyes** KNIGHT, Contr. Lich. N. S. Wales p. 47; NYL. Fl. 1886 p. 326; WAIN. React. Lich. Müll. p. 9.

Var. *hokiensis* WAIN. Thallus et pseudostromata albido-cinereuscentia, KHO non reagentia. Sporæ (observante cel. YASUDA) long.

0,060–0,078, crass. 0,026–0,032 mm, membrana lævigata. Pseudostromata partim contigua.

Prov. Hōki (180). In rupe.

69. *Pertusaria inabensis* WAIN. (sp. n.).

Subsimilis *P. nagasakensis* NYL., at thallo et pseudostromatibus KHO extus impure fulvescentibus, intus lutescentibus et sporis paullo majoribus, sec. cel. YASUDAM long. circ. 0,128, crass. 0,058 mm, membrana lævigata. Thallus crassus, substrato laxè affixus. Pseudostromata irregularia, ostiolis impressis.

Prov. Inaba (285).

70. *Pertusaria rugulosa* WAIN. (sp. n.).

Thallus sat tenuis, lævigatus, partim verruculis increbre inspersus, albidus, KHO demum maculis rubescentibus, intus non reagens. Pseudostromata sat dispersa, sat depressa, 1–2 mm lata, 1–5 apothecia continentia, lateribus præruptis, ostiolis nigris, parvis, dispersis, marginibus ostiolaribus vulgo impressis, KHO extus demum rubescentia, intus non reagentia. Sporæ binæ, long. 0,150–0,110, crass. 0,040–0,030 mm, membrana costulata. *P. subrugosa* NYL., Lich. Jap. p. 52, huic habitu est similis, ostiolis lutescentibus indistinctis et reactione thalli ab ea differens.

Prov. Kōzuke, mons Akagi (289). Ad corticem arboris.

71. *Pertusaria Yasudæ* WAIN. (sp. n.).

Thallus modice incrassatus, verrucoso-inæqualis, albidus, KHO non reagens. Pseudostromata depresso hemisphærica, lateribus præruptis, apice impresso, in depressione difformi cinereo-nigricante ostiola 7–1 continentia, ostiolis confertis, punctiformibus, nigris, partim contigua aut confluentia, sat lævigata aut ambitu leviter verrucosa, KHO non reagentia. Sporæ “binæ, long. 0,100–0,135, crass. 0,030–0,040 mm, membrana lævigata” (sec. cel. YASUDAM). Subsimilis *P. leucodi* KNIGHT (NYL. Lich. Nov. Zel. p. 71), quæ sporis ab ea differt.

Prov. Hōki (177 a). Ad corticem arboris.

72. *Pertusaria commixta* WAIN. (sp. n.).

Thallus modice incrassatus, verrucoso-inæqualis, albidus, KHO in zona gonidiali levissime subrubescens. Pseudostromata irregulariter verrucosa, difformia, contigua et confluentia, lateribus præruptis aut basi leviter insculptis, apice leviter impresso, in depressione difformi dilute cinereo nigricante ostiola solitaria aut pauca continentia, zona gonidiali KHO rubescente. Sporæ “binæ, long. 0,114–0,130, crass. 0,030–0,034 mm, membrana lævigata” (sec. cel. YASUDAM). Affinis speciei præcedenti.

Prov. Inaba (177 b). Ad corticem arboris.

73. *Pertusaria kurohiensis* WAIN. Lich. Jap. (1918) p. 3.

Sporæ binæ, long. 0,140–0,200, crass. 0,040–0,050 mm, membrana lævigata (sec. cel. YASUDAM). Proxime affinis *P. diffidenti* NYL., Lich. Jap. p. 52.

Prov. Kōzuke, mons Akagi (281). Prov. Mutsu, mons Hakkōda (179). Ad corticem arborum.

74. *Pertusaria akagiensis* WAIN. (sp. n.).

Thallus sat crassus, crebre plicato- et subverrucoso-inæqualis, cinerascens, KHO superne non reagens, intus lutescens et demum fulvo-rubescens. Pseudostromata partim crebra, tuberculiformia, lat. 5–1 mm, basi leviter insculpta, apothecia numerosa continentia, intus lutescentia deindeque fulvo-rubescens, extus maculis dilute rubescens, ostiolis haud aut parum impressis, margine ostiolarum annulum parum distinctum formante. Sporæ 4-næ, long. 0,180–0,270, crass. 0,050–0,060 mm, membrana lævigata. Affinis *P. kotsukensi* WAIN. (Lich. Jap. p. 3), quæ vix nisi reactionibus ab ea differt.

Prov. Kozuke, mons Akagi (280, 284). Ad corticem arborum.

75. *Pertusaria sublæviganda* WAIN. (sp. n.).

Thallus sat lævigatus aut leviter verruculis depressis increbre inspersus, cinereo-glaucescens, KHO zona gonidiali demum rubescente. Pseudostromata dispersa, lat. 1–3,5 mm, sæpe applanata, difformia, lateribus præruptis, ad zonam gonidiale KHO demum rubescentia, apothecia numerosa continentia, margine ostiolarum parum prominente, ostiolo minuto, sæpe foveolato. Sporæ “8-næ, long. 0,058–0,094, crass. 0,022–0,028 mm, membrana lævigata” (sec. cel. YASUDAM). Reactionibus differt a *P. læviganda* NYL. Lich. Jap. p. 53.

Prov. Kōzuke, mons Akagi (288). Ad corticem arboris.

Var. *pauperior* WAIN.

Sporæ binæ, long. 0,115–0,145, crass. 0,035–0,040 mm, membrana lævigata (sec. cel. YASUDAM).

Prov. Kōzuke, mons Akagi (290). Ad corticem arboris.

76. *Perforaria epileiodes* WAIN. (sp. n.).

Thallus tenuis, verruculis minutis inspersus, cinerascens, KHO non reagens. Apothecia sat crebra, subglobosa, lat. 0,6–0,8 mm, basi insculpta, apice leviter impresso, depressione plano, albido-pallido, cinereo-glaucescens-limbato. Peritheciis albidis, globosis, jodo cærulescens, in depressione apothecii denudatum, ceterum amphithecio thallino, gonidia continente, extus cinerascens obductum, ostiolo minutissimo. Paraphyses simplices, crass. 0,0008 mm, glatinam

abundantem percurrentes. Sporæ 8-næ—2-næ, distichæ, decolores, ellipsoideæ aut oblongæ, long. 0,056–0,064, crass. 0,024–0,030 mm, membrana 0,002 mm crassa, lævigata. Affinis *Perforariæ epileiæ* (NYL. Lich. Jap. p. 57), quæ cephalodiis numerosis, apotheciis majoribus et thallo crassiore ab ea differt.

Prov. Harima, mons Hokke (169). Ad corticem arboris.

77. *Pilophorus Hallii* (TUCK.) WAIN. (*Pilophoron clavatum* NYL. Lich. Jap. p. 17).

Prov. Kōzuke (276). In rupe.

78. *Placodium granulosum* (SCHÆR.) WAIN.

Thallo sorediis instructo a *Pl. elegante* differens.

Prov. Kōzuke, mons Mitsumine (143). In rupe.

79. *Placodium pyropæcilum* (NYL.) WAIN. (*Lecanora pyropæcila* NYL. in CROMB. Lich. Cap., 1877, p. 172).

Thallus areolatus (etiam in specimine orig.), dispersus, haud granulosus. Affine *Pl. Mülleri* WAIN.

Prov. Kōzuke (312). In rupe.

80. *Placodium fumosum* WAIN. (sp. n.).

Thallus sat tenuis, crustaceus, areolato-diffractus areolatusve, areolis contiguis, cinereis, sat lævigatis. Apothecia tota basi substrato adnata, haud constricta, lat. 0,4–0,25 mm, tenuia, quasi inter areolas thalli sita et eas parum superantia, disco vitellino aut sordide vitellino-rubescente, nudo, plano, margine tenuissimo, nigricante, discum haud superante. Sporæ haud evolutæ. Affine *Pl. benguellensi* NYL. et *Pl. Janino* WAIN.

Prov. Kōzuke, mons Nabewari (338). In rupe.

81. *Placodium gilvofumosum* WAIN. (sp. n.).

Thallus tenuis, crustaceus, sat continuus, leviter verruculoso-inæqualis, impure albidus aut subcinerascens. Apothecia sat crebre, basi bene constricta, lat. 0,5–0,3 mm, crass. circ. 0,180 mm, disco plano, vitellino-rubescente, nudo, margine modice incrassato, prominente, integro, cinerascens aut raro cæruleo-nigricante. Excipulum gonidia continens. Epithecium fulvescens, KHO purpureum. Sporæ 8-næ, orculæformes, apicibus obtusis, decolores, long. 0,011–0,014, crass. 0,006–0,007 mm. Affine *Placodio Børgesenii* WAIN.

Prov. Kōzuke (341). In rupe.

82. *Placodium ferrugineum* (HUDS.) HEPP.

Prov. Inaba, mons Sensoku (151 p.p., cum *Anaptychia hypochræa*). Ad corticem arboris.

83. *Anaptychia hypochræa* WAIN. (sp. n.).

Thallus laciniis circ. 10–15 mm longis, 2–0,2 mm latis, adscendentibus, laxe imbricatis, superne albido-cinerascentibus, KHO non reagentibus, subtus decorticatis, ochraceis et KHO violascentibus, margine fibrilloso, fibrillis simplicibus aut parce ramosis, subalbidis. Affinis *A. podocarpæ*.

Prov. Inaba, mons Sensoku (151). Ad corticem arboris. Ster.

84. **Anaptychia hypoleuca** (MUHLENB.) WAIN. var. **Schærerii** HEPP. Sorediis destituta.

Prov. Rikuzen, Shōbuta (364). Ad corticem *Pini densifloræ*.

85. **Anaptychia heterochroa** WAIN. (sp. n.).

Thallus iteratim dichotome ramosus, ramis laxe adpressis, circ. 1–0,5 mm latis, superne albidis, KHO vix distincte flavescentibus, intus lutescentibus, subtus decorticatus, ochraceus et KHO purpureus, fibrillis marginalibus, nigris, simplicibus et demum squarroso-ramosis-simis et soraliis marginalibus instructus. Affinis *A. hypoleuca*.

Prov. Kōzuke (229). Ad corticem *Pini densifloræ*. Ster.

86. **Physcia glaucovirescens** NYL. (Syn. Lich. p. 419, Fl. 1869 p. 322).

Var. **tenebricosa** WAIN.

Thallus subtus nigricans, rhizinis nigricantibus.

Prov. Nagato (256). In rupe.

87. **Physcia trichophora** HUE (Lich. Extra-eur. n. 348).

Var. **cinereoalbida** WAIN.

Thallus cinereo-albicans, KHO non reagens, subtus sordide vel pallide albicans, rhizinis brevibus, long. 0,5–0,2 mm, increbris. Excipulum glabrum.

Prov. Inaba (45, 153). Ad corticem arboris.

88. **Physcia imbricata** WAIN. (sp. n.).

Thallus foliaceo-squamosus, KHO non reagens, squamis varie confertis, long. 5–1, lat. 1,5–0,5 mm, adpressis, demum marginem versus sorediosis, subcuneatis, lobatis vel irregulariter laciniatis, superne glauco-cinerascentibus aut partim cervinis, subtus nigricantibus, rhizinis nigricantibus, brevibus. Apothecia excipulo subtus trichoso, disco nigricante. Affinis *Ph. cycloseli* ACH.

Prov. Rikuzen, Shiogama (269). Ad corticem *Pini densifloræ*.

89. **Melanaspicilia fumosa** WAIN. (sp. n.).

Thallus crustaceus, areolatus aut rimoso-diffractus, areolis 2–0,5 mm latis, angulosis, lævigatis, modice incrassatis, cinereis, opacis, intus KHO flavescentibus. Apothecia sat crebra, aspicilioidea, areolis immersa, immarginata, disco nigro, nudo, plano, thallum haud super-

ante. Hypothecium fusconigrum. Epithecium fusconigrum. Sporæ 8-næ, fuscæ, ellipsoideæ, 1-septatæ, septo sat tenui, membrana æqualiter incrassata, long. circ. 0,017, crass. 0,009 mm. Medulla jodo hand cærulescens.

Prov. Kōzuke (329). In rupe.

90. **Melanaspicilia kozukensis** WAIN. (sp. n.).

Thallus crustaceus, sat tenuis, areolatus, areolis adnatis, vulgo contiguis, angulosis, 0,3–0,5 mm latis, cinereo-pallidis aut albido-cinerascentibus, KHO non reagentibus, medulla non cærulescente, hypothallo nigricante parce conspicuo. Apothecia dispersa, areolis immersa aut raro demum leviter emergentia, immarginata aut raro demum margine thallino, integro, tenui, thallum parum superante instructa, disco 0,4–0,2 mm lato, nigro, nudo, plano. Hypothecium pallidum. Hymenium superius sat dilute rufescens. Sporæ 8-næ, fuscæ, ellipsoideæ, 1-septatæ, haud constrictæ, long. circ. 0,017–0,018, crass. 0,010–0,012 mm, membrana sat inæqualiter incrassata. Habitu subsimilis *Lecanoræ confragosulæ* NYL. (in CROMB. Lich. Cap. p. 172), quæ thallo areolato-squamuloso, areolis hypothallo nigro instratis, ab ea differt. Etiam *Rinodina ocellata* hanc in memoriam revocans.

Prov. Kōzuke (315). In rupe.

91. **Melanaspicilia crebra** WAIN. (sp. n.).

Thallus sat tenuis, crustaceus, areolatus, areolis 0,5–0,2 mm latis, angulosis, contiguis, planis, lævigatis, cinereo-fuscescentibus, opacis, nec KHO nec jodo reagentibus, hypothallo indistincto. Apothecia crebra, aspicilioidea, areolis immersa, immarginata, disco 0,3–0,2 mm lato, nigro, nudo, plano, thallum haud superante. Hypothecium albidum. Epithecium fuscescens. Sporæ 8-næ, distichæ, nigricantes, ellipsoideæ, 1-septatæ, septo tenui, membrana æqualiter modice incrassata, long. 0,010–0,012, crass. 0,005–0,007 mm.

Prov. Kōzuke (317). In rupe.

92. **Rinodina cervina** WAIN. (sp. n.).

Thallus sat tenuis aut modice incrassatus, crustaceus, areolatus, areolis 1–0,2 mm latis, angulosis, planis, sat lævigatis aut levissime verruculoso-inæqualibus, cervino-luridis vel cinereo-fuscescentibus, opacis, KHO non reagentibus, hypothallo indistincto. Apothecia partim sat crebra, thallo adnata, basi leviter constricta, 0,3–0,4 mm lata, margine thallino, tenui, integro, discum haud superante, disco plano, fusco-nigricante aut partim pallido-rufescente, nudo. Hypothecium decoloratum. Paraphyses apice clavatæ fuscæ aut raro

pallidiores. Excipulum jodo non reagens. Sporæ 8-næ, nigricantes, ellipsoideæ, 1-septatæ, long. 0,014–0,017, crass. 0,007 mm, septo tenui, membrana sat æqualiter incrassata. *R. milvinæ* affinis.

Prov. Kōzuke (359). In rupe.

93. *Rinodina subalbida* (NYL.) WAIN. *Lecanora sophodes* ACH.
**L. subalbida* NYL. Lich. Jap. p. 40.

Excipulum jodo non reagens. Sporæ long. 0,017–0,024, crass. 0,009–0,011 mm, 1-septatæ, membrana inæqualiter incrassata, septo tenui aut sat tenui aut raro crasso et poro instructa. Apothecia margine integro, albido. Thallus verrucosus, albidus, KHO non reagens.

Prov. Kōzuke (325). Ad corticem arboris. Collegit K. TSUNODA.

94. *Rinodina akagiensis* WAIN. (sp. n.).

Thallus sat tenuis, crustaceus, areolatus, areolis dispersis, 0,5–0,3 mm latis, planis aut depressis, fusciscentibus aut cinereo-fusciscentibus, hypothallo indistincto. Apothecia dispersa, lat. 1,2–0,8 mm, adnata, basi constricta, disco plano aut rarius demum depresso-convexo, fusco aut fusco-nigricante, nudo, margine tenui aut sat tenui, integro, cinereo-fuscescente cinerascenve. Excipulum jodo haud reagens. Hypothecium albidum. Epithecium fusciscens aut rubricosopallidum, KHO non reagens. Sporæ 8-næ, distichæ, intense nigræ, ellipsoideæ aut oblongæ, apicibus obtusis, rectæ aut curvatæ, raro leviter constrictæ, long. 0,030–0,034, crass. 0,012–0,016 mm (sec. cel. YASUDAM long. 0,034–0,040, crass. 0,016–0,018 mm), membrana inæqualiter incrassata, septo tenui. Facie externa *R. homobolam* (NYL.) in memoriam revocans.

Prov. Kōzuke, mons Akagi (348). Ad corticem arboris.

95. *Buellia Yasudæ* WAIN. Lich. Jap. (1918) p. 4.

Thallus KHO demum leviter flavescens. Sporæ long. 0,011, crass. 0,004 mm, 3-septatæ.

Prov. Awaji (310). Ad corticem arboris. Collegit S. MATSUZAWA.