

CONTRIBUTIONS TO THE QUEENSLAND
FLORA.

PART III.

BY

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(PLATE XVIII.)

(Read on the 12th September, 1884.)

ORDER RUTACEÆ.

Boronia anemonifolia var. *anethifolia*.
Hab. Stanthorpe (J. Davidson.)

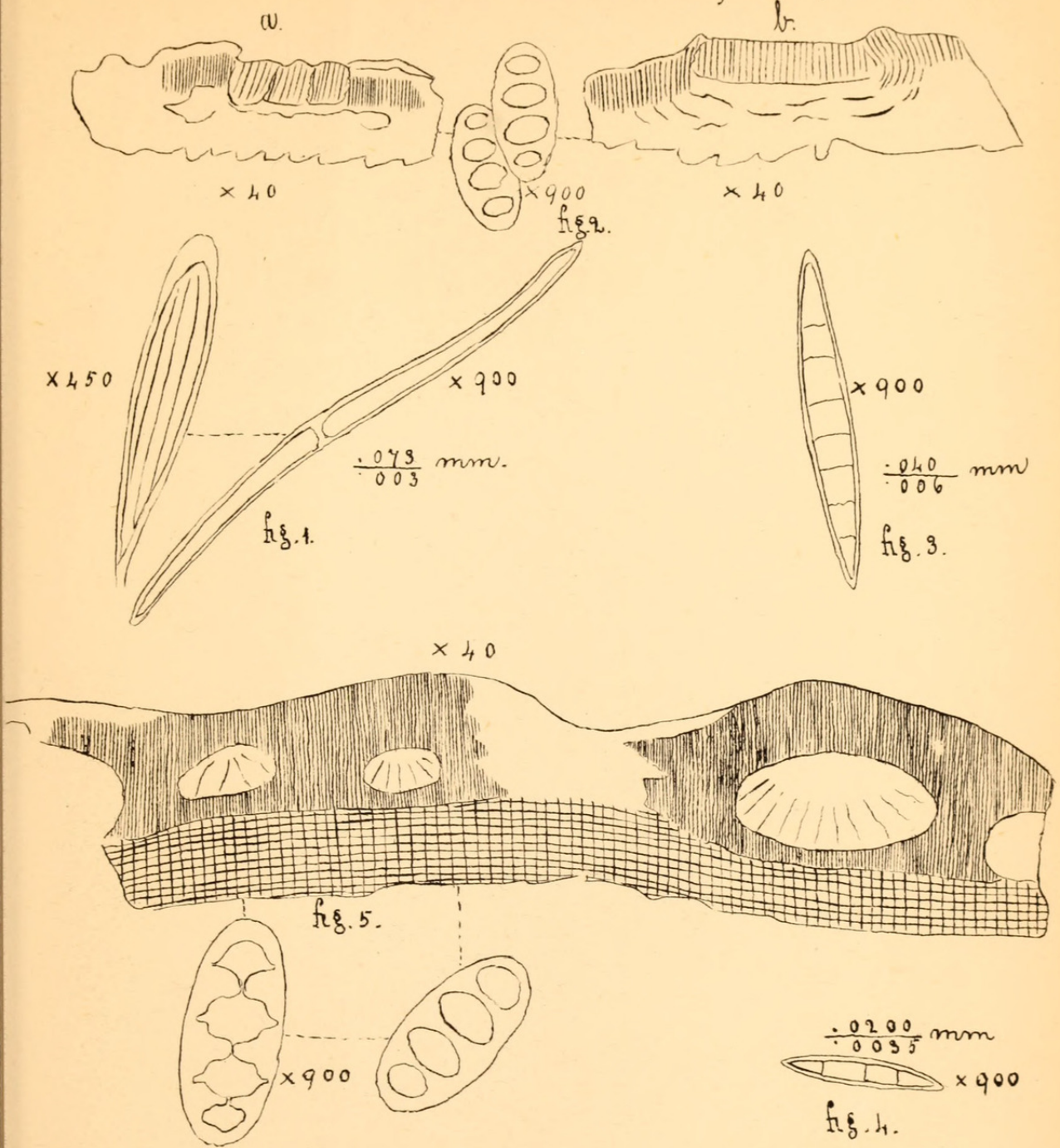
ORDER COMPOSITÆ.

Senecio velleioides, *A. Cunn.*
Hab. Main Range (C. H. Hartmann.)

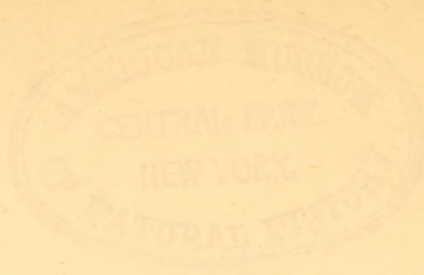
ORDER SAPINDACEÆ.

Diploglottis diphylostegia, *F.v.M.*

Following Baron Mueller's first description of this tree in *Fragm. Vol. V.*, it will be found in "The Synopsis of the Queensland Flora" under Plumier's genus *Cupania*. In *Fragm. Vol. IX. p. 90*, the learned Botanist of Victoria abandons the idea of giving to the tree the rank of a species and leaves it as a mere variety of the well known native Tamarind, *Diploglottis Cunninghamii Hook. f.* That it is a tree of very different habit and much more valuable as a shade giving tree than the native Tamarind anyone would at once admit upon seeing the trees of each species growing at Bowen Park, irrespective of the botanical difference in the inflorescence. The trees now flowering at Bowen Park were collected by the writer about twelve years ago in the dense scrub of the upper part of the Herbert River where it forms one of the largest scrub trees. The leaves



- fig 1 *Picrasolia rhapsispora*, Knight.
 " 2 *Thelotrema trypethelioides*, Knight. no: 40
 3 *Ascidium octoloculare*, Knight. no: 204.
 4 *Lecidea (Bilimbia) quadrilocularis*, Knight. no: 320
 5 *Trypethelium rubrum*, Knight.



are smaller, of a thinner texture, and not so densely rusty tomentose as the common native Tamarind, the inflorescence is more lax also, and the flowers contain five petals, differences quite sufficient to constitute a separate species.

Hab. Mount Elliot (Kilner & Fitzalan.) Rockingham Bay
(Dallachy.) Herbert River (Bailey.)

ORDER ORCHIDÆ.

Dendrobium Adæ, Sp. Nov.

Stems about 1ft. long slender, furrowed, bearing at their summit usually 3 leaves and 1 or 2 short racemes of white highly fragrant flowers. Leaves lanceolate 3 or 4in. long, and about 1in. wide at the broadest part, the texture rather thin prominently keeled underneath. Racemes 1 to 3in. long bearing 2 to 4 flowers. The bracts small, narrow-lanceolate. Pedicels about $\frac{1}{2}$ in. long. Sepals or outer segments about $\frac{1}{2}$ in. long and somewhat ovate, the lateral ones slightly falcate, spur or pouch short and curved. Petals or inner segments rather shorter and narrower than the outer. Labellum shorter than the other segments, the lateral lobes glabrous faintly marked with purple bars, middle lobe cordate and densely tomentose, with 3 close raised lines along the disc reaching to the base of the middle lobe. Column short white. Anther white. Pollen masses rather small, pale yellow. This desirable addition to the Queensland *Dendrobiums* by its slender stems and leaves approaches *D. gracilicaule*, *F.v.M.*, while the form of the flowers is more that of *D. Kingianum*, *Bidw.*, but is quite distinct. The specific name is in honour of Mrs. J. W. R. Stuart.

Hab. Scrubs between Herberton and Mourilyan Harbour.
Collected by J. W. R. Stuart.

ORDER JUNCACEÆ.

TRIBE XEROTÆ.

Xanthorrhæa quadrangulata, F.v.M.

Hab. Mount Perry (Jas. Keys.)

Until met with by Mr. Keys at Mount Perry this Grass-tree was considered to be confined to South Australia.

TRIBE EUJUNCEÆ.

Juncus planifolius, R. Br.

Hab. Helidon Waterfalls (B. Crow.)

ORDER LYCOPODIACEÆ.

Lycopodium tetrapterygium, *Sp. Nov.*

This species has the tassel-like inflorescence of *L. Billardieri*, and *L. phlegmaria*; but differs from each in the direction of the stem leaves, which, in the present species, are twisted half round, so as to form four even wings along the stem, thereby presenting a marked distinctive character to the plant.

Hab. On trees, Daintree River (Fitzalan), Johnstone River (W. R. Kefford).

ORDER FILICES.

Lomaria membranacea, *Colenso, Spec. Filic. Vol. III, p. 34.*

Hab., Johnstone River (W. R. Kefford).

A plant, which is evidently the above growing in the bush-house at Bowen Park, Mr. Kefford tells me he found on the Johnstone River. This is most interesting, as it is the first time the species has been met with it out of New Zealand.

ORDER MUSCI.

Funaria sphærocarpa, *C. Muell.*

Hab. near Brisbane (Bailey.)

Cyathophorum, *Beauv.*

C. pteridioides, *Beauv. (C. pennatum, Brid.)*

Hab. Johnstone River (W. R. Kefford.)

Phyllogonium cymbifolioides, *C. Muell.*

Hab. Southern Queensland (Bailey.)

Neckera Baileyana, *C. Muell.*

Hab. Southern Queensland (Bailey.)

Distichophyllum, *Dozy. et Molkenb.*

D. (Mniadelphus) Baileyanus, *C. Muell.*

Hab. Helidon Waterfalls (Bailey.)

ORDER HEPATICÆ,

Metzgeria, Raddi.

M. furcata, *Nees.*

Hab. Keppel Bay (M. A. Thozet.)

M. hamata, *Linderb.*

Hab. Southern Queensland (Bailey.)

ORDER CHARACEÆ.

Nitella cristata, *Al. Br.*

Hab. water about Highfields Main Range (Bailey.)

N. diffusa, *Al. Br.*

Hab. Fassifern (Bailey.)

Chara gymnopitys, *Al. Br.*

Hab. Ithaca Creek (Bailey.)

ORDER LICHENES.

Ricasolia raphispora, *Chas. Knight, Sp. Nov.* (Pl. xviii.; fig. 1)

Thallus glauco-pallescent, inequalis tenuiter membranaceus, passim lævis passim rugulosus, lobatus, lobis rotundato-crenatis (prominentiis mastoideis nullis) subtus pallidus, ambitu nudus, rhizinis obscuris. Apothecia badio-rufa (latit. circa 2.5 mm.) submarginalia, margine integro. Sporæ elongato-fusiformes sæpissime solum 1-septatæ longit. 0.073 mm. crassit. .003 mm.

Differs from *R. crenulata* var. *stenospora*, Nyl. in the margin of the apothecia being entire instead of lacero-crenate. *R. dichroa* also has elongated narrow spores, but the thallus is lurid fuscous beneath, and the whole plant larger and coarser than *R. raphispora*.

Hab. on bark of scrub trees, southern Queensland (Bailey.)

Parmelia sphærospora, *C. Knight in Trans. Linn. Soc. Vol. II, Part 2, 1882.*

Hab. on rocks Glasshouse Mountain (Bailey.)

Lecanora (Hæmatomma) Babingtonii *C. Knight.*

Hab. On Bark, Southern Queensland (Bailey.)

Thelotrema trypethelioides, *C. Knight, Sp. Nov.* (Pl. xviii; fig. 2.)

Thallus *viridis* creberrime verrucosus crassus continuus verrucis convexis v. hemisphoricis singulis v. plures in colliculo congestis Apothecia singula v. plures in singulis verrucis immersa; ostiolum commune minutum depressum, mox annulatim late expansum, tum profunde urceolatum, disco albo margineque prominente, excipulo proprio tenui ab lateribus atro-fusco, Apotheciorum verrucis intus omnino carbonizatis vel dense atro-laminatis, laminis erectis; paraphysibus gracilibus, non bene discretis. Sporæ in ascis cylindræis pediculiformes 3-septatæ long. 0.015 mm. crassit. 0.008 mm.

Ad cortice arborum. Leg F. M. Bailey.

Fig. (a) section of verruca with more than one apothecium ($\times 40$); (b) do-do with only one apothecium. Two spores ($\times 900$.)

Obs. Allied to *Thelotrema schizostomum* (Syn. *Trypethelium schizostomum*, *Leighton*.)

Hab. on bark of Scrub Trees, Brisbane (Bailey.)

Ascidium octolocularis, *C. Knight*, *Sp. Nov.* (Pl. xviii.; fig. 3.)

Thallus glauco-viridis v. ochraceo-viridis tenuis continuus, verrucis apotheciorum convexis concoloribus (lat. 0.8 mm.) ostiola minutissima, excipulo proprio nullo, paraphysibus e flavo-virescentibus chlorophylli granis per strata arcte adglutinata dispositis. Asci non visi. Sporæ fusiformes incolores 7-septatæ (rare 3-septatæ.)

Hab. on Brisbane Scrub Trees (Bailey.)

Lecidea (*Bilimbia*) *quadrilocularis*, *C. Knight*, *Sp. Nov.* (Pl. xviii.; fig. 4.)

Thallus granuloso-furfuraceus virescens effusus passim evanescens. Apothecia minuta (lat. circa 0.5 mm.) numerosa luteo-carnea v. subaurantiaca convexa vel subglobosa immarginata, hypothecio dilute colorato, paraphysibus gracilissimis plurimum clathratis. Sporæ fusiformes rectæ 3-septatæ incolores long. .02 mm. crassit. .003 mm. *Ad cortices*.

Allied to *Lecidea sphaeroides*, but thallus darker, apothecia one-third less in size; paraphyses much branched, and spores much more slender.

Hab. on bark of trees at Lytton (Bailey.)

Lecidea (*Biatorina*) *planella*, *Nyl.*

Hab. on bark, *Enoggera* scrubs (Bailey)

Lecidea (*Psora*) *rhyphoderma*, *C. Knight*, *Lich. of N.Z.*

L. foliata var. *atrovirens*, *C. Knight*.

Hab. on bark of trees, Fassifern (Bailey.)

Chiodecton stromaticum, *C. Knight*, *Lich. of N.S.W., Trans. Linn Soc. Lond.*

Hab. on bark of trees, Indooroopilly (Bailey.)

Trypethelium rubrum, *C. Knight*, *Sp. Nov.* (Pl. xviii.; fig. 5.)

Thallus cruentus, verrucis (latit. circiter 1.2 mm.) sape monopreniis primitus convexis concoloribus, demum subconoideis nigrescentibus, ostiolo papillato nudo nigro areola albidula cincto, excipulo e verruca carbonizata formato; paraphysibus subtilissimis discretis. Sporæ in ascis cylindræis oblongæ

utrinquerotundæ fusciculæ 4-cellulæ, *cellulis lenticularibus nonnihil quadratis*, emortuæ fuscae, longit. 0.024 mm. crassit, 0.012 mm.

Hab. on bark of trees Brisbane scrubs (Bailey.)

Verrucaria velata, *Turn.*

Hab. on bark of trees, Fassifern (Bailey.)

ORDER FUNGI.

Polyporus applanatus, *Fr.*

Hab. on trees in dense scrubs (Bailey.)

Corticium rhabarbarinum, *B. et Br.*

Hab. on wood, Queensland scrubs (Bailey.)

Hexagona similis, *Berk.*

Hab. on wood, Queensland scrubs (Bailey.)

Peziza aluticolor, *Berk.*

Hab. on wood, Main Range (Bailey.)

Hypomyces, *Tul.*

H. chrysospermus, *Tul.*

Hab. on *Polyporus*, near Brisbane (H. Tryon.)

Hypoxyton flavo-fuscum, *B. et Br.*, *Sp. Nov. Mss.*

Hab. on stumps of "blady grass," Humpybong (Dr. Joseph Bancroft.)

Dothidea, *Fries.*

D. nitidula, *B. et Br.*, *Sp. Nov. Mss.*

Hab. on *Fimbristylis*, near Northcote (R. C. Burton.)

The object of the writer in bringing under the notice of the Society from time to time these lists of additions to the Colony's Flora is that persons taking an interest in the subject may have reliable data as to the extent of our Flora; whilst at the same time the opportunity is taken of now and again making special notices of already recorded species. Including those of the present list, it will be observed that nearly two hundred plants have been thus noticed as occurring in Queensland since the publication of the writer's work, "The Synopsis of the Queensland Flora," about one-fourth being new plants.



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