



XXXI.—Floræ Insularum Novæ Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand

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all the four species drawn up with reference to the above differences.

1. *C. lectularius*.—Ferrugineo-ochraceus : thorace profunde emarginato, lateribus reflexis : abdomine suborbiculato, apice acuto : antennis articulo tertio quarto longiore.

Long. $2\frac{1}{2}$ lin. *Hab.* In domibus.

2. *C. columbarius*.—Ferrugineo-ochraceus : thorace profunde emarginato, lateribus reflexis : abdomine orbiculato, apice subacuto : antennis articulo tertio quarto paulo longiore.

Long. vix $2\frac{1}{4}$ lin. *Hab.* In Columbibus.

3. *C. Hirundinis*.—Fusco-ferrugineus : thorace leviter emarginato, lateribus planis : abdomine ovato, apice subacuto : antennis brevibus, articulis tertio et quarto subæqualibus.

Long. $1\frac{3}{4}$ lin. *Hab.* In nidis Hirundinis urbicæ.

4. *C. Pipistrelli*.—Ferrugineo-ochraceus, nitidus : thorace profunde emarginato, lateribus paulo reflexis : abdomine ovato, postice attenuato : antennis articulo tertio quarto longiore.

Long. 2 lin. *Hab.* In Vespertilione Pipistrello.

I have only to add, that the last two species were both taken in Cambridgeshire. Of the *C. Pipistrelli* I have seen but one specimen.

REFERENCE TO PLATE V.

Fig. 1. *C. columbarius*. Fig. 2. *C. Hirundinis*. Fig. 3. *C. Pipistrelli*.
a. One of the antennæ. All the figures are highly magnified. The line above each denotes the natural size.

Swaffham Bulbeck, April 6, 1839.

XXXI.—*Floræ Insularum Novæ Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand.* By ALLAN CUNNINGHAM, Esq.

[Continued from p. 115.]

ROSACEÆ, *Juss.*

ACCENA, *Vahl.*

566. *A. Sanguisorbæ*. *Vahl Enum.* i. p. 294. *DC. Prodr.* ii. p. 592. *Ræm. et Sch. Syst. Veg.* i. p. 268.—*Ancistrum Sanguisorbæ*. *L. Willd. Sp. Pl.* i. p. 151.—*A. diandrum*. *Forst. Prodr.* n. 52. *A. Rich. Fl. Nov. Zel.* p. 341.

New Zealand (Middle Island). Dusky Bay.—1773, *G. Forster*. Cook's Strait.—1827, *D'Urville*. (Northern Island).—1769, *Sir Jos. Banks*. In dry exposed situations, Bay of Islands,—1826, *A. Cunningham*.

RUBUS, L.

567. *R. australis*, caule glabro teretiusculo, aculeis ramorum secundis recurvis, foliis ternatis quinatisve petiolatis, foliolis ellipticis ovatisve extra medium argute serratis, serraturis acuminatis coriaceis venosis utrinque glabris, floribus axillaribus racemosis dioicis, laciniis calycinis obtusis patentibus, pedunculis ramulisque tomentosis. *Forst. Prodr. n. 224. DC. Prodr. ii. p. 556. A. Rich. Fl. Nov. Zel. p. 340.*

Tataramora, indigenis.

New Zealand (Northern Island).—1769, *Sir Jos. Banks*. Margins of forests, Wangaroa.—1826, *A. Cunningham*. (Middle Island).—1773, *G. Forster*.

568. *R. Schmidelioides*, caule glabro tereti, aculeis ramorum brevissimis sparsis revurvis, foliis ternatis petiolatis, foliolis ovalibus lato-ellipticisve coriaceis rugosis venosis extra medium serratis acutis basi rotundatis subcordatis supra viridibus lævibus, subtus pedunculis ramulisque ferrugineo-tomentosis, racemis axillaribus conferti floris brevibus paniculatis, floribus dioicis, calycibus obtusis lanatis.

New Zealand (Northern Island). Forests at Wangaroa and Bay of Islands.—1826, *A. Cunningham*.

Obs. Habitus præcedentis, sed differt foliolis omnino ternatis rugosis venosis subtus (dicoloribus) valde ferrugineo-tomentosis, racemoque multo brevior.

569. *R. cissoides*; caule glabro tereti ramoque inermi, foliis ternatis quinatisve elliptico-lanceolatis lanceolatisve petiolatis acuminatis serratis basi rotundatis utrinque lævibus, petiolis costisve mediis retrorso-aculeatis, paniculis axillaribus terminalibusve glabriusculis laxis elongatis pendulis, calycinis laciniis ovatis obtusiusculis reflexis tomentosis.

New Zealand (Northern Island). Dense forests of Wangaroa.—1826, *A. Cunningham*.

Obs. Habitus omnino *Cissi*. Folia præsertim quinata longe petiolata, valde nitida et pulcherrime venosa, serraturis acuminatis. *Panicula* ramosa pedalis.

LEGUMINOSÆ, Juss.

1. EDWARDSIA, Salisb.

570. *E. microphylla*, foliolis 33—41, obovatis subrotundis villiosiusculis, carinæ petalis ellipticis, margine dorsali uncinato. *DC. Prodr. ii. p. 97. A. Rich. Fl. Nov. Zel. p. 344.*—*Sophora microphylla. Ait. Hort. Kew. ed. 1. v. ii. p. 42. Jacq. Hort. Schænb. iii. t. 269. Bot. Mag. t. 1442.*

Kowhy or Kongi, indigenis.

New Zealand (Northern Island).—1769, *Sir Jos. Banks*. Bay of Islands. 1826, *A. Cunningham*.

571. *E. grandiflora*, foliolis 17—21 oblongo-linearibus sublanceolatis villosiusculis carinæ petalis late falcatis. *DC. Prodr. ii. p. 97.*—*Sophora tetraptera. Ait. Hort. Kew. ed. 1. v. ii. p. 43. Curtis Bot. Mag. t. 167.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks*.

Quid *E. microphylla*, Wenderoth in *Linnaea*, v. p. 202. ex nova Zelandia, sec. Endl.?

2. CLIANTHUS, *Sol. mss. in Bibl. Banks.*

Calyx late campanulatus subæqualis 5-dentatus. *Vexillum* acuminatum reflexum, alis parallelis longius; *Carina* scaphiformis, vexillo alisque multo longior, omnino monopetala. *Stamina* manifeste perigyna, diadelpa, omnia fertilia. *Stylus* staminibus duplo longior, versus apicem hinc leviter barbatus, stigmatibus simplicissimis. *Legumen* pedicellatum, coriaceum, acuminatum, ventricosum, polyspermum, intus lanulosum sutura dorsali recta, ventrali convexa. *Semina* reniformia, funiculis longiusculis affixa.

572. *C. puniceus*, suffruticosus diffusus glaber, foliis alternis oblongis submarginatis racemis pendulis multifloris, calyce quinque-dentato, legumine glabro. *Lindl. in Bot. Reg.* 1775. *Sol. mscr. in Mus. Brit. A. Cunn. in Hort. Lond. Trans.* v. i. (new series) p. 521. t. 22.—*Donia punicea*. *G. Don. Syst. of Gard.* ii. p. 468.

Kowainguta Kaka, indigenis Anglice *Parrot's-bill*.

New Zealand (Northern Island).—1769, *Sir Jos. Banks*. Shores of Mercury Bay, 1833, Missionaries.

Suffrutex diffusus ramosus, quinquepedalis, ramis viridibus parum lignosis. *Folia* 8-juga cum impari. *Racemi* penduli, multiflori, floribus speciosissimis coccineis. *Legumen* fere tripollices longum, atro-fuscum, venosum. *Semina* reniformia, fusca, atro-nebulosa. *Lindl. loc. cit.*

3. GUILANDINA, *Juss., L.*

573. *G. Bonduc*, *L. DC. Prodr.* ii. p. 480. *A. Rich. Fl. Nov. Zel.* p. 348.—*G. Bonducella*, *L.—Forst. Prodr.* n. 185. *Rumph. Amb.* t. 48. and 49.

New Zealand (Middle Island).—1773, *G. Forster*.

4. CARMICHAELIA, *R., Br.*

Calyx cyathiformis quinque-dentatus. *Ovarium* dispermum. *Stigma* simplex. *Legumen* oligospermum (1-3 spermum) repleto post lapsum valvularum persistente.

574. *C. australis*. *R. Br. in Bot. Reg.* 912.—*Lotus?* arboreus. *Forst. Prodr.* n. 278. *Willd. Sp. Pl.* iii. p. 1392. *A. Rich. Fl. Nov. Zel.* p. 345. *DC. Prodr.* ii. p. 214.—*Bossia* Scolopendrea. *A. Rich. Fl. Nov. Zel.* p. 345. non *Brownii* atque excl. syn. *Andrewsii Ventenatisque*.—*Genista* compressa. *Sol. ms. in Bibl. Banks.*

New Zealand (Northern Island). On the east side.—1769, *Sir Jos. Banks*. Frequent in dry woods and open sandy shores among underwood.—1826, *A. Cunningham*.—(Middle Island). Dusky Bay.—1773, *G. Forster*.

Frutex ramosissimus (sexpedalis) sub statu florescentiæ sæpius aphyllus. *Caulis* ramique primarii teretes, tenuiores v. plano-compressi v. ancipites, stipulis minutis alternatim dentati. *Folia* e dentibus ramorum fruticis junioris ternata v. pinnata (foliis 3—7, obcordatis). *Racemi* simplicissimi e denticulis ramorum. *Flores* parvi albo-purpurei. *Petala* longitudine

subæqualia, vexillum lamina latiore quam longiore basi absque callis auriculisve, carina obtusa. *Filamenta* 1—9 fida. *Ovarium* lineare, 5—6-sper-mum. *Stylus* subalatus. *Stigma* obtusum, imberbe. *Semina* reniformia, sinu clauso, umbilico nudo. *R. Br.*

This very remarkable plant seems to have been but imperfectly understood until Mr. Brown ably defined the true structure of its pod. Forster, with an expression of doubt, referred it to *Lotus*, in which genus it was retained by Willdenow, notwithstanding that he appears to have been acquainted with its fruit; and by DeCandolle in the 2nd vol. of his 'Prodromus,' which appeared in 1825, who could not have been aware of its having been erected into a new genus by Mr. Brown; and from the MSS. of that eminent botanist, published in the 'Bot. Reg.' in September of that year. But the blunders of M. Ach. Richard, respecting this very curious plant which had been living in the English gardens antecedent to the publication of his 'Essai d'une Flore de la Nouv. Zélande' in 1832, (and one might have supposed it would at that time have got into the Paris gardens from us) appear wholly inexplicable. Apparently altogether ignorant of Mr. Brown's name, and evidently without an idea of what Forster meant by *Lotus? arboreus*, he not only inserts this latter in his work from Forster's MSS. at some length, but on finding specimens in fruit of the *Carmichaelia* in the collections formed during the voyage of the Astrolabe by Capt. D'Urville (who had gathered them in the Bay of Islands in 1827), he confounds them with *Bassia* *Scolopendria*, a common Port Jackson plant; and thus our genus appears, in his volume on the Botany of New Zealand, under two names, viz. the above one of *Bassia*, and that of *Lotus*.

RHAMNEÆ, *R. Br.*

1. CARPODETUS, *Forst. Gen. t. 17.*

575. *C. serratus*. *Forst. Prodr. n. 11. Char. Gen. t. 17. DC. Prodr. ii. p. 29. A. Rich. Fl. Nov. Zel. p. 366.*

Piri-piri-water ab incolis dicitur.

New Zealand (Middle Island).—1773, *G. Forster*. (Northern Island.) On the alluvial banks of rivers, occasionally in salt-water marshes, Wanga-roa, &c. bearing fruit in December.—1826, *A. Cunningham*.

Arbuscula 10—20 pedalis, ramosa, ramis foliosis sparsis divaricatisve, foliorum casu tuberculatis. *Folia* alterna, ovalia, oblonga, acuta, petiolata, glanduloso-serrata, superne puberula, subtus discolora, glabra, reticulata. *Racemi* axillares, terminalesve corymbosi. *Calyx* turbinatus ovario adnatus, limbo 5-partito, laciniis linearibus deciduis. *Corolla* 5-petala, petalis albis, æstivatione valvatis, calycis limbo duplo longioribus. *Stamina* 5, filamentis subulatis cum petalis alternantibus. *Stylus* simplex, erectus,

staminibus longior. *Fructus* coriaceus, subglobosus, quasi zona cinctus ex margine calycis adnato, 5-locularis. *Semina* plura, angulata rugulosa.

2. PENNANTIA, *Forst., Gen. 67.*

Calycis sepala 5, lanceolata, acuta, æstivatione imbricata, in anthesi patentissima. *Stamina* 5, hypogyna, sepalis alterna; filamentis liberis, antheris introrsus bilocularibus, dorso affixis. *Ovarium* sessile, orato-oblongum, 3 loculare, loculis biovulatis, ovulis ex apice loculi pendulis. *Stigma* sessile, discoideum, obsolete 3-lobum. *Fructus* drupaceus, monospermus, semine inverso. *Endl.*

576. *P. corymbosa.* *Forst. Prodr. n. 379. Willd. Sp. Pl. iv. p. 1122. Endl. Prodr. Fl. Norf. p. 80. Rœm. et Sch. Syst. Veg. v. 5. p. 569. A. Rich. Fl. Nov. Zel. p. 368. Icon. Ferd. Bauer, illustr. Pl. Norf. Ins. t. 165.*

New Zealand (Middle Island).—1773, *G. Forster.*

Arbor 40-pedalis, et infra cortice albo. *Rami* teretes, albo-punctati, fistulosi. *Folia* alterna, petiolata, elliptico-oblonga v. obovata, integerrima (vel extra medium serrata) emarginata, venosa, glabra. *Flores* hermaphroditæ, pentandri, paucissimis abortu masculis intermixtis, corymbosi. *Corymbi* cymosi, 4-pollicares, in ramis ramulisque terminales. *Ovarium* 3 loculare, loculis biovulatis, ovulis pendulis superpositis. *Drupa* atro-purpurea stigmatibus coronata, semine unico inverso fœta.

3. POMADERRIS, *Labill.*

Flores petaliferæ.

577. *P. Kumeraho*, cymis densifloris umbellato-paniculatis, foliis ellipticis coriaceis valde obtusis super glabris subrugulosis margine tenuiter crenulatis integrisve subtus alte costatis ramulisque albo-tomentosis.

Kumeraho nom. vernaculum. *R. Cunningham.*

New Zealand (Northern Island). Banks of the Keri-Keri river, &c., Bay of Islands.—1826, *A. Cunningham.*—1833, *R. Cunningham.*

Obs. Valde affinis *P. ellipticæ* quæ differt foliis præsertim acutioribus, panicula multo minore et laxiore, floribusve perquam minus confertis.

The flowering of this shrub, which takes place in the month of September, the spring of New Zealand, is the signal for the natives to plant their *Koomeas* or sweet potatoes; hence doubtless originates the name by which they call this plant in the present day.

•• *Flores apetalæ.*

578. *P. ericifolia*, foliis linearibus pubescenti-scabris marginibus conduplicato-revolutis subtus cinereo-hirsutissimis, cymis parvifloris axillaribus folio vix longioribus, stipulis subulatis ramisque oblongis. *Hooker, Journ. Bot. i. p. 257.*

Tuturnai incolarum.

New Zealand (Northern Island). On hills among fern, Bay of Islands.—1826, *A. Cunningham.*

The above character accords so fully with the plant from New Zealand, as to leave no doubt of its identity with that from Van Diemen's Land, recently described by Sir Wm. J. Hooker in the work above quoted.

Fruticulus incanus, erectus, ramosissimus. *Rami* stricti, numerosi. *Folia* linearia, obtusa, petiolata, 3—4 lineas longa, supra convexa, margine valde revoluta. Flores parvi apetalii cymosi, pedunculati, folia subæquantia. *Porianthium* 5-fidum, laciniis ovatis acutis. *Stamina* 5, inclusa, segmentis perianthii alterna. *Stylus* apice trifidus staminum longitudine. *Stigmata* tria.

Genus novum *Rhamneis affine*, —

COROKIA.

Flores dioici. *Mas.* —. *Fœm.* *Calycis* tubus ovario adhærens limbo 5-fido persistente, per æstivationem valvato. *Petala* 5, lanceolata, lobis calycis alterna, decidua. *Discus* carnosus, glandulosus, epigynus. *Stylus* 1. *Stigma* capitatum lobatum. *Ovarium* inferum biloculare, loculis 1-ovulatis pendulis. *Drupa* 2-locularis, loculis 1-spermis.

579. *C. Buddleioides.*

Korokia-taranga, appellatio incolarum est. *R. Cunn.*

New Zealand (Northern Island). Marginis of woods, on the shores of the Bay of Islands, Wangaroa, &c.—1826, *A. Cunningham*.—1834, *R. Cunningham*.

Caulis fruticosus, 10 pedalis, ramis ramulisque strictis albo-tomentosis instar *Buddleiæ*. *Folia* alterna, lanceolata, acuta, petiolata, coriacea, supra plerumque glabra, valde lucida, subtus dense albo-lanata. *Flores* parvi, subpaniculati, paniculis brevibus sæpius axillaribus v. terminalibus cano-pilosis. *Corollæ* petala alba, oblongo-lanceolata, reflexa, segmentis calycis ter longiora, extus incano-villosa, intus glabra. *Drupa* spherica, pisi magnitudine (epicarpio fragili, nigro, nitido) apice umbilicato villosa.

Nomen hujus generis ad nomen vernaculum refert.

Genus novum Ordinis manifeste intus

BREXICEAS ET CELASTRINEAS.

IXERBA.

Calyx inferus, 5-phyllus, persistens, æstivatione imbricata. *Petala* 5, membranacea, unguiculata, disco hypogyno inserta, decidua, fere æstivatione imbricata. *Stamina* 5, hypogyna, petalis alterna. *Atheræ* ovatæ acuminatæ, adnatæ, biloculares, longitudinaliter dehiscentes. *Discus* hypogynus, carnosus, 5-lobatus, lobis inter bases staminum re-tusis integris. *Stylus* 1, angulatus, continuus, versus apicem attenuatus. *Stigma* simplex. *Ovarium* superum 5-lobum, 5-loculare, loculis 2-ovulatis, ovulis collateralibus suspensis. *Fructus* nondum vidi.

Nomen *Brexiceæ* anagramma est, cui generi nostra planta certe maxime affinis.

580. *I. Brexioides.*

New Zealand (Northern Island). A tree on the skirts of woods at Wangaroa, Nov. 1828. *A. Cunningham*.

Ann. Nat. Hist. Vol. 3. No. 17. June 1839. T

Arbor elegans sempervirens, viginti pedalis et infra; ramis teretibus glabris, cortice rugoso. Folia (4—5 uncialia) alterna, petiolata, exstipulata, ad summitatem ramulorum sæpe verticillato-conferta, elongato-lanceolata, acuminata, obtusiuscula, coriacea remote calloso-serrata, utrinque glabra, superne nitida, subtus pallidiora. Flores albi, terminales, corymbosi, pedunculis (uncialibus) plerumque trichotomis.

One of the most remarkable plants of New Zealand, where, however, it is of very rare occurrence, and in affinity approaching nearer to *Brexia* of M. du Petit Thouars than to any other published genus. With it our plant accords in the æstivation and forms of the calyx and petals, in its hypogynous stamens and the figure of the anthers, and in its superior pentagonal quinquelocular ovary with a disk at its base. In the form of these latter, however, our genus differs essentially; having neither, in the one, an indefinite number of ovules attached in two rows to placenta in the axis, nor in the other the toothed or fringed lobes between the bases of the stamens, as botanists have described the genus of M. du Petit Thouars. The matured fruit of *Ixerba* has not yet been examined, so that the structure of the seeds remains to be ascertained. Its nearest affinity appears with *Celastrinea*, with which it agrees in the æstivation of the floral envelopes, the number of the stamens, and their alternating with the petals, but differing in the insertion of the stamens; these, in that family being perigynous, and the ovules, for the most part, ascending from the axis of the ovary.

[To be continued.]

XXXII.—*Information respecting Botanical Travellers.*

Mr. Gardner's Journeys in Brazil.

THE following extracts of letters lately received from Mr. Gardner cannot fail to give pleasure to those who take an interest in his travels and collections, which promise to throw great light on the history of the vegetable productions of a very extensive and hitherto little explored region of tropical South America.—EDIT.

Villa do Icó, Sertão of the Province of Seirá,
August 25, 1838.

About the middle of last month I did myself the pleasure of writing to you from Pernambuco, stating that it was my intention to pass into the interior from Aracaty, a sea-port in this province, and probably to try to reach the mountains to the west of the province of