Syngnathus lumbriciformis, Jenyns. (Worm Pipe-fish.) Holyhead : common.

Acipenser Sturio, Linn. (Sturgeon.) One of these fish was taken in 1799 in the Severn above Shrewsbury. The specimen is now in the Museum of the Shropshire and North Wales Natural History Society.

Scyllium Canicula, Cuv. (Spotted Dog-fish.) Common on the Welsh coast.

Lamna Monensis, Cuv. (Beaumaris Shark.) Has been twice taken in the Menai Straits.

Selache maximus, Cuv. (Basking Shark.) Occurs but rarely on the Welsh coast.

Raia Batis, Linn. (Skate.) On the Welsh coast, but not common.

Raia clavata, Will. (Thornback.) Common.

Petromyzon marinus, Linn. (Lamprey.) Found in the Severn and Dee.

Petromyzon fluviatilis, Linn. (Lampern.) Also found in the Severn and Dee ; in the former, though in great abundance, near Worcester : it is rare at Shrewsbury.

Ammocætes branchialis, Cuv. (Land Pride.) Common in the brooks of Salop.

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

[Continued from vol. ii. p. 214.]

HALORAGEÆ, *R. Br.*

1. CERCODIA, *Murray, Lamarck.*

Calycis tubus ovario adnatus, limbus 4-partitus. *Petala* 4. *Stam.* 8. *Stigmata* 4, sessilia. *Fructus* nucamentaceus, indehiscens, tetraqueter, 4-alatus, 4-ocularis, 4-spermus.

526. *C. erecta*, foliis (oppositis) petiolatis ovato-lanceolatis grosse dentatis, 2—3 uncialibus ; floribus in axillis superioribus sessilibus aggregato-verticillatis. *DC. Prodr.* iii. p. 67. *A. Rich. Fl. Nov. Zel.* p. 324.—*Haloragis alata.* *Jacq. Ic.* 1. t. 69.

Ti or *Toa-Toa*, incol. *D'Urville.*

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

527. *C. alternifolia*, foliis alternis petiolatis ovato-lanceolatis acutis grosse serratis scabriusculis (uncialibus), floribus axillaribus pedicellatis solitariis vel in verticillis 2—3, versus extremitates ramulorum, ramulis angulatis asperis.

New Zealand (Northern Island). Among fern, on the shores of the Bay of Islands.—1833, *R. Cunningham*.

528. *C. incana*, cano-villosa, foliis oppositis brevi-petiolatis oblongo-ovatis ovatisve coriaceis serratis, floribus axillaribus solitariis vel terminalibus racemosis.

New Zealand (Northern Island). Dry exposed rocky hills. Wangaroa.—1826, *A. Cunningham*.

GONIOCARPUS, *Kœnig*.

Calycis tubus ovario ovato adhærens, limbus 4-partitus. *Petala* 4, lobis calycis alterna. *Stamina* 8. *Stigmata* 4. *Fructus* nucamentaceus indehiscens, 8-angulatus, 8-nervius, 4-ocularis, 4-spermus. *Semina* in loculis pendula.

529. *G. tetragynus*, foliis ovatis serratis acutis subscabris, junioribus petalis ramulisque pilosis, spicis elongatis, floribus sessilibus erectis. *DC. Prodr.* iii. p. 66.—*G. tetragyna*. *Labill. Nov. Holl.* i. p. 39. t. 53.

New Zealand (Northern Island). Among fern, on hills around the Bay of Islands.—1833, *R. Cunningham*.

Obs. *Caulis* spithamæus et triplo altior, suberectus obtuse tetragonus ut ramula. *Flores* ex axillis foliorum seu bractearum alternarum, solitarii. *Petala* 4, pilis caducis exasperata. *Staminum filamenta* octo brevia, antheræ oblongæ tetragonæ biloculares. *Germen* inferum subglobosum. *Stigmata* penicilliformia.

530. *G. citriodorus*; repens, foliis ovato-rotundatis cordatis acutis crenulatis, petalis ramulisque glabris, spicis abbreviatis, floribus tetrandris pendulis.

Piri-piri ab incolis vulgo nominatur.

New Zealand (Northern Island). In bogs, on the banks of the Keri Keri river, Bay of Islands.—1834, *Rich. Cunningham*.

531. *G. depressus*, repens, foliis elliptico-ovatis acutis crenatis, ramulisque scabriusculis, spicis elongatis laxis, floribus subsessilibus patulis.

New Zealand (Northern Island). Low boggy ground at Wangaroa.—1826, *A. Cunningham*.

MYRIOPHYLLUM, *Vaill., Linn.*

532. *M. propinquum*, foliis quaternum verticillatis pinnatipartitis, lobis linearibus oppositis, inferioribus quandoque linearibus integris vel dentatis, floribus axillaribus solitariis geminisve.

New Zealand (Northern Island). Bogs at the Mission Station on the Keri Keri river, as also on the Hokianga river.—1834, *R. Cunningham*.

Obs. Herba facie *Myriophylli verticillati*, *L.* Omnino cum *M. elatinoidi*, *Gaud. (Ann. Sc. Nat. v. p. 105)* characteribus congruit nostra planta; floribus axillaribus dioicis, masculis octandris, sed fortasse diversa.

ONAGRARIÆ, *Juss.*

1. *FUCHSIA*, *Plum., L.*

* *Flores petaliferi.*

533. *F. excorticata*, ramis lævibus demum excorticatis, foliis alternis petiolatis ovato-lanceolatis acuminatis denticulatis subtus dealbatis glabris, pe-

dicellis axillaribus flore subbrevioribus, lobis calycis lanceolatis tubo longioribus trinerviis, petala ovata duplo superantibus. *DC. Prodr.* iii. p. 39. *Bot. Reg.* t. 857.—*Skinnera excorticata.* *Forst. Gen.* t. 29. *A. Rich. Fl. Nov. Zel.* p. 331.

Kohutu-hutu vulgo ab incolis dicitur.

The berries of this fine plant, which emit a delicious perfume, and are produced in great abundance during the summer months in New Zealand, contain a large portion of sugar, and on that account are eaten with avidity, both by the natives and the birds of those islands. How Forster could have so misunderstood the fruit of this shrub as to have described it as a capsule, and in consequence erected it into a genus distinct from *Fuchsia*, to which all subsequent botanists (saving M. Ach. Richard, who retains Forster's genus) have referred it, is difficult to understand.

** *Flores apetalæ.*

534. *F. procumbens* (R. C. Mss.), caule procumbente adscendente, ramis gracilibus glabris, foliis sparsis alternis longe petiolatis lato-ellipticis subrotundisve obtusis basi subinde cordatis remote denticulatis ciliatis, paginis glabris, pedicellis solitariis axillaribus (in ramulis lateralibus) flore ter brevioribus, perianthio infundibuliformi, lobis lanceolatis reflexis tubo brevioribus, stylo elongato filiformi stamina exserta superante, stigmate dilatato lobato, pilis patentibus tenuiter instructo!

Totera indigenis.

New Zealand (Northern Island). Around the village of Matauri on the east coast opposite the Cavallos Isles, inhabiting the sands immediately above the range of the tide, where it was found in flower in March.—1834, *R. Cunningham.*

Fruticulus decumbens, virgatus. *Rami* patentes, graciles, glabri, teretes, juniores foliati. *Folia* subuncialia venosa, basi cordiformia, minute denticulata, utrinque glabra. *Petioles* unciales, complanato-filiformes, glabriusculi supra canaliculati. *Flores* axillares, solitarii, erecti. *Perianthium* tubulosum, aurantio-luteum, limbus 4-partitus reflexus, laciniis æqualibus lanceolatis acutis viridibus, apicibus purpureo-luridis. *Stamina* octo, filamenta faucibus inserta. *Antheræ* ovatae, biloculares, peltatae. *Ovarium* 4-loculare, loculis pluriovulatis, ovulis obovatis erectis. *Stylus* complanatus, staminibus longior. *Stigma* clavatum, lobatum. *Bacca*—?

2. *EPILOBIUM, L.*

535. *E. nummularifolium* (R. C. Mss.) foliis oppositis (lineam unam longis) subrotundis carnosius petiolatis integris subcrenatisve glabris subtus glaucis, floribus pedicellatis axillaribus solitariis, fructibus pedunculatis albobescentibus, caule repente.—*E. pendulum.* *Sol. Mss. in Bibl. Banks.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Shores of the Keri Keri river, and in dry as well as in boggy grounds.—1834, *Rich. Cunningham.*

536. *E. pedunculare*, repens, radicans, parum pubescens, foliis oppositis

subrotundis (2 lineas longis) membranaceis petiolatis denticulatis, floribus axillaribus solitariis, pedunculis elongatis, fructibus glabris.

New Zealand (Northern Island). Near the lake situated between Waimaté Mission House and the great forest of Hokianga.—1834, *Rich. Cunningham*.

537. *E. microphyllum*, caulibus erectis gracilibus lævibus, foliis inferioribus oppositis (vix unam lineam longis) ovalibus obtusis carnosus brevi-petiolatis integerrimis utrinque glabris aveniis, floribus solitariis axillaribus pedicellatis, fructibus brevi-pedunculatis, marginibus tantum albo-pubentibus. *A. Rich. Fl. Nov. Zel. p. 325. t. 36. f. 2.*

Popa vulgo incolæ nuncupant. *D'Urville*.

New Zealand (Middle Island). Dry and sandy places near Astrolabe Harbour.—1827, *D'Urville*.

538. *E. rotundifolium*, caule erectiusculo cinereo-pubescente, foliis oppositis (semiuncialibus) petiolatis subrotundis lato-ellipticisve obtusis denticulatis glabriusculis, petiolis ramulisque cinereis, floribus solitariis axillaribus pedunculatis, pedunculis incanis folio longioribus, fructibus tenuissime pubentibus. *Forst. Prodr. n. 161. DC. Prodr. iii. p. 43. A. Rich. Fl. Nov. Zel. p. 326.*—*E. flaccidum. Sol. Ms. non Brot.*

New Zealand (Northern Island)—1769, *Sir Jos. Banks*. Alluvial shores of the Kana-Kana river.—1826, *A. Cunningham*. (Middle Island). Queen Charlotte's Sound.—1773, *G. Forster*.

539. *E. thymifolium* (RC. Ms.) ; caulibus ascendentibus cinereo-scabriusculis, foliis oppositis (2 lin. longis) ovato-oblongis obtusis crassiusculis undulatis integerrimis vel paucidenticulatis scabris, floribus solitariis geminisve axillaribus, pedunculis capsulisque albo-pubentibus.

New Zealand (Northern Island). Among fern in dry exposed situations at the Waimaté Mission Station.—1833, *R. Cunningham*.

540. *E. alsinoides*, caulibus adscendentibus divaricatis glabriusculis, foliis oppositis alternisve ovatis obtusis membranaceis integerrimis seu paucidenticulatis glabris, floribus solitariis axillaribus pedicellatis, pedunculis elongatis capsulisque tenuiter incano-pubescentibus.

New Zealand (Northern Island). Between the Waimaté and Keri-Keri Mission Stations, Bay of Islands.—1833, *R. Cunningham*.

541. *E. nerterioides*, glabrum, caule repente radicante, foliis oppositis ellipticis (2 lin. longis) obtusis petiolatis subintegerrimis margine revolutis, utrinque capsulisque lævibus, floribus solitariis axillaribus pedicellatis.

New Zealand (Northern Island). Bogs, near the Kana-Kana river, Bay of Islands.—1826, *A. Cunningham*.

542. *E. atriplicifolium*, glabriusculum, caule basi suffruticoso erecto, foliis oppositis (sup. alternis) ovato-lanceolatis rhomboideisve crassiusculis remote dentatis, floribus solitariis axillaribus breve pedicellatis, pedunculis fructiferis capsula lævi subquater brevioribus, ramulis tenuissime cano-pubentibus.

New Zealand (Northern Island). Damp woods, near the great falls of the Keri Keri river, Bay of Islands.—1833, *R. Cunningham*.

543. *E. pubens*, pubigerum, caule erecto, foliis inferioribus oppositis ovalibus ovali-oblongisve venosis obtusis petiolatis serratis, floribus axillaribus

solitariis, pedunculis fructiferis capsula ter brevioribus. *A. Rich. Fl. Nov. Zel. p. 329. t. 36. f. 1.*

Kata-pourogui nomen vernaculum. *D'Urville.*

Caulis repens, ramis erectis vix pedilibus. *Flores* parvuli, albi, breviter pedunculati.

544. *E. cinereum*, pubenti-cinereum, foliis suboppositis lineari-lanceolatis subspathulatis apice mucronulatis margine parum et distanter dentatis, floribus axillaribus solitariis, pedunculis fructiferis capsula multoties brevioribus. *A. Rich. Fl. Nov. Zel. p. 320.*

Pou-nao-ucko, indigenis. *D'Urville.*

New Zealand (Northern Island). Shady situations on the skirts of woods, Wangaroa, &c.—1833, *R. Cunningham.* Bay of Islands.—1827, *D'Urville.*

Caulis erectus, 2-pedalis. *Flores* rubelli.

545. *E. incanum*, erectum cano-villosum, foliis lineari-oblongis apice apiculo obtuso, margine pauci-remoteque dentatis, floribus axillaribus solitariis, pedunculis capsuliferis, fructu parum brevioribus.

New Zealand (Northern Island). Margins of woods, near the falls of the Waitangy river, Bay of Islands.—1834, *R. Cunningham.*

Obs. Species præcedenti valde affinis, sed forsan characteribus datis distincta, omnino villosior.

546. *E. hirtigerum*, strictum, dense laxèque pilosum, foliis (uncialibus) alternis sessilibus confertis angusto-lanceolatis acutiusculis supra convexis integerrimis aut raro denticulatis modice erectis subappressisve, floribus axillaribus solitariis brevissime pedicellatis, capsula pedunculo fructifero multoties longiore.

New Zealand (Northern Island). Skirts of forests round Wangaroa Harbour.—1833, *R. Cunningham.*

Caulis erectus, bipedalis, confertim foliosus. *Flores* purpurei seu lilacini. *Capsula* (2-pollicaris) obtuse tetragona, villosa, villis lanuginosis.

547. *E. virgatum*, erectum, gracile foliis (inferioribus) oppositis linearibus (subuncialibus) acutis paucidentatis modice erectis, ramulisque tenuiter virgatis incanis, floribus axillaribus solitariis, pedunculis fructiferis capsulam subæquantibus.

New Zealand (Northern Island). In woods near the falls of the Keri-Keri river, at the head of the Kana-Kana river, &c., Bay of Islands.—1834, *R. Cunningham.*

548. *E. glabellum*, ramis erectis glabriusculis, foliis (inferioribus) oppositis oblongo-lanceolatis lanceolatisve obtusiusculis brevi-petiolatis distanter serratis, nervis margineque ciliatis, floribus axillaribus solitariis, capsula pedunculo fructifero plus triplo longiore. *Forst. Prodr. n. 160. A. Rich. Fl. Nov. Zel. p. 328.*

Mati couragui, indig. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Country between the Waitangy and the Keri-Keri rivers, Bay of Islands.—1834, *R. Cunningham.* (Middle Island).—1773, *G. Forster.*

Caulis prostratus repens, ramis erectis pedilibus et ultra. *Folia* pollicem *Ann. Nat. Hist. Vol. 3. No. 14. March 1839.*

et ultra longa. *Flores* rubelli, pedunculati, pedunculo brevi tomentoso. *Capsula* 2-pollicaris, obsolete quadrigona, præsertim ad suturas pubescens.

549. *E. confertum*, strictum, adpresso curtoque canum, foliis (uncialibus) oblongo-lanceolatis argute serratis ad axillas confertis, floribus axillaribus solitariis, pedunculis fructiferis capsula duplo brevioribus.

New Zealand (Northern Island). Among grass on river banks, Wangaroa.—1826, *A. Cunningham*.

Caulis erectus, pedalis. *Rami* rubelli, pilis albis adpressis brevissimis conspersi. *Folia* lanceolata, angusta, remote serrata vel subsinuata, fasciculata. *Flores* secus apices ramorum axillares. *Capsula* linearis bipollicaris, obtuse tetragona.

550. *E. pallidiflorum*, (Sol. Ms.) erectum, glabriusculum, foliis oppositis breviter petiolatis longo-lanceolatis acuminatis serrulatis venosis, floribus ad summitatem ramulorum axillaribus, ramulisque albo-patentibus, capsula pedunculo fructifero ter longiore.

New Zealand (Northern Island). Swampy grounds, Opuraga (Mercury Bay, lat. $36\frac{3}{4}^{\circ}$ S.)—1769, *Sir Jos. Banks*. In low wet situations, Wangaroa.—1826, *A. Cunningham*.

Caulis erectus, tripedalis et ultra; ramis teretibus strictis virgatis fuscis tenuissime pubentibus. *Flores* albi, majores quam in alteris speciebus, laciniis calycinis ovatis acutis corolla brevioribus.

551. *E. junceum* (Sol. Ms.) caule tereti fistuloso, superne incano-pubescente, foliis sessilibus lanceolatis acutis denticulatis glabriusculis, calycibus acuminatis corollam superantibus. *Spreng. Syst. Veg.* ii. p. 233. *Forst. Prodr.* n. 516.—*E. denticulatum*, *Ruiz et Pavon. Fl. Peruv.* iii. p. 78. t. 314. sec. *Spreng*.

552. *E. haloragifolium*, caule erecto, foliis (semiuncialibus) superioribus alternis subsessilibus patentibus ovato-lanceolatis obtusis remote dentatis glabris, floribus ad summa ramulorum solitariis, pedunculis fructiferis capsula pubigera triplo quadruplo brevioribus, ramulis pubescentibus.

New Zealand (Northern Island). Shady places among fern on the Wai-caddy river, Bay of Islands.—1833, *R. Cunningham*.

Obs. Valde affine *E. atriplicifolio*, sed differt foliis ovato-lanceolatis, et capsula matura pubente.

[To be continued.]

VI.—On an apparently undescribed Species of *Lepadogaster*; and on the *Gobius minutus* of Muller, and *Cyclopterus minutus* of Pallas? considered as the young of *Cycl. lumpus*, Linn. By WM. THOMPSON, Esq., Vice-President of the Natural History Society of Belfast*.

LEPADOGASTER CEPHALUS, *mihi*. Connemara Sucker.

IN the collection of Robert Ball, Esq., of Dublin, there is an

* Read before this Society December 5, 1838, and illustrated by the specimens alluded to.

1839. "V.—Floræ Insularum Nova Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand." *Annals of natural history* 3, 29–34.
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