

GLOSSARIUM

BOTANICUM:

NOVAE ZELANDIAE

by

William Colenso

Transcript of the manuscript  
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Sydney  
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AUSTRALIA

## Transcriber's notes

This transcript was prepared using 'semi-diplomatic' conventions. In particular:

- Ligatures æ and œ are converted to 'ae' and 'oe'. The letter 'thorn' has been replaced by 'th'. Long 's' has been replaced by short 's'.
- Spelling has not been corrected
- No editorial insertions have been made, and usual indicators of such, e.g. square brackets [] etc are exactly as they are in the original.
- It has been attempted to reproduce line breaks. However, due to the wide variation in writing sizes and irregularity of placement, it was not possible to do that in every case.
- Page sizes have been reproduced as far as possible. Where the manuscript was meant to be read across two pages opened out flat, those pages have been combined into a single wide transcript page.
- Page numbers in serif font are Colenso's. Page numbers in sans-serif are by an unknown collator. Page numbers in these notes refer to the collation numbering.
- Page 125 was not originally part of the manuscript but was bound in between 124 and 127, separating two pages meant to be read as one. In this transcript, p. 125 appears between 123 and 126 so as not to interpose a separation.
- Blank pages, or those with no significant text, are omitted from this transcript. Those pages are: 4, 82-85, 88, 90, 92, 94, 126, 140, 141, 144, 145, 150-154, 159, 160.

C. Earp

March 2016



Glossarium  
Botanicum



Novae Zelandiae



latifa. – broad leaved  
 diosmifol – stonecrop leaved  
 Ligustrifol – privet-leaved  
 angustifol narrow  
 Salicifolia – willow-leaved

Banks of Waiaruhe  
 W. side, Ipomoea  
 Decr. 1839: do do  
 a Coprosma, with  
 repand sinuate  
 leaves – also, Viscum  
salicornioides, near  
 flowg. – say a month  
 hence

42.

“whatever God himself has  
pleased to think worthy of his  
making, its fellow. Creature man  
shod. not think unworthy of his  
knowing” – Boyle

M

Ma

Ma

Ma

Ki

Ki

Te

Ko

ei te

a – glistening

hinaki

taking eels

14 . 0
3 . 0 . 0
1 . 6
2 . 6
4 . 6
4 . 0

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Glossarium  
Botanicum:

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Novae Zelandiae.

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MDCCCXXCVIII.

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First River, this side, on way to Rotorua, a new  
Dracophyllum: seed for Mr Bidwell.

Matamata marshes, a minute fern – ophioglossm.?

Pholas on Waiheke near Maxwell's

Daphne, sea-side

Saw a peculiar plant under a stone, on edge of River  
 right-hand side of roadway above Mr. Kemps, July  
 22/39. (Gentian?)

Decr 31/40. Measured a Fuchsia excorticata at  
 Waikare; Girth, 33 inches; height 25 to 30 ft.

March 8/41. Measured a leaf of Taro Hoia (Caladium  
 Esculentum ? Vent.) at Pihoi – length 33 inches, breadth 23



To Hooker –

No. 10 – pittosp Tawapou

11 petiole-winged fruit (Wairua) Tanekaha

12 mahimahi (Wairua)

13 poataniwa – emarginate

14 puhikawa

15 Laurus Victoriana

16 puka large leaf

[17 little slender weed like Galium]

18 tikumu

19 green leaf of shrub gathd. near Wareora

20 little chenopodm. like thing from the pa, Tongake

21 Hymenllum. next (in app) to H. dilatatum – wood Wangarei

22 Viola

23 Rohutu

24 Toetoe minim. Wairua

25 parapara

26 small Coprosma – like C. rhamnoides

27 Manaoa

28 orchis – falcate epiphyte – hab. of Earina

29 coprosma – variegated leaf, muddy banks of W.

30 small Ranunculus – road to O Taika

31 Santalaceae - Maire

## Exogenous Plants

are those, which exhibit, when viewed transversely, a central cellular substance or pith, an external cellular and fibrous ring or bark, an intermediate woody mass, and certain fine lines radiating from the pith to the bark, through the wood, and called medullary rays – (Lindley's Int. to Bot. p. 59.) –

Ex. Plants always have 2 or more cotyledons - hence Dicotyledons

## Endogenous Plants

(see pp. 116–130,) are those in which neither bark nor pith, nor wood, nor medullary rays are distinguishable; the transverse section exhibits a large number of hard spots caused by the section of bundles of woody tissue, and a mass of cellular substance in which they lie imbedded.

Endog. P. have only 1 cotyledon

1	Kauri	
2	Tanekaha	
3	Miro	
4	Totara	
5	Mae	} one tree
6	Matai	
7	Kawaka	
8	Kahikatea	
9	Rimu	
	Manoao?	

## Exogenae

Coniferae or Pinaceae 313

1	Dammara Australis	Lambert
	Taxaceae 316	
2	Phyllocladus trichomanoides	Brown
3	Podocarpus ferruginea	Don.
4	Podocarpus	Don.
5	Dacrydium	A. Cunningham
6		
7	Dacrydium plumosum	Don
8	Podocarpus excelsus } Dacrydium taxifolium](Lindley)	Richard
9	Dacrydium cupressinum	Solander
		WC

10	Kawakawa	
11		
12		Cloudy Bay leaves opp. halbert shaped, hearted bristly serrate; racemes in pairs, divaricate; stipules hearted
13		flooded banks: Kkawa river
14	Parataniwa	Damp woods: banks, Kkawa.
15		Banks Kkawa; tree 25 p.
16	Porokaiwiri	Kkeri river: Tree, 30 p. – red berry

	<u>Piperaceae</u> 185	
10	Piper excelsum	Forster
11	Peperomia Urvilliana	A. Richard
	<u>Urticeae</u> 175	
12	Urtica ferox Linne 1555	Willdenow
13	U. debilis see Parietaria debilis, Linné	Endlicher
	<u>Artocarpiae</u> 175	
14	Elatosemma rugosa	A. Cunningham
15	Hedycaria dentata	Forster
16	H. scabra	A. Cunningham


17	Aute	Waremarama Kkawa
18	Waiuatua	
19	Maire	Dark forests, Wangaroa, 15 p.
20		Forests, Wangaroa; bearg. fruit.
21		Woods, Bay Islands.
22		In fissures of rocks on coast and tops of mountains (F., $\mu$ .)
23		

	<u>Moreae</u> 175	
17	Broussonetia papyrifera Linné 1557?	Willdenow
	<u>Euphorbiaceae</u> 175	
18	Euphorbia glauca	Forster
	<u>Santalaceae</u> p. 193	
19	Mira salicifolia	A. Cunningham
20	M. eucalyptoides	A. Cunningham
21	M. myrtifolia	A. Cunningham
	<u>Thymelae</u> 194	
22	Pimelia gnidia leaves oblong-lanceolate, acute, rigid, very smooth; corolla villous on outside ( $\mu$ )	Vahl.
23	P. pilosa hairy, leaves linear obtuse ( $\mu$ )	Vahl.

24	Kaikaiatua	among underwood, shady moist grounds, Bay of Islands
25	Outatoranga	Sandhills; Heads. Hokianga.
26		
27		Dry hills, Fern; B. Islands.
28	Toru	see Persoonia, 195 Linne
29	Rewarewa	
30	Taraire	
31	Tawa	
32	Tangeo	
	Tawaraunui	

24	Pimelia virgata	Vahl.
25	P. arenaria	A. Cunningham
26	P. prostrata leaves ovate, sessile, fleshy (μ.)	Vahl.
27	P. Urvilliana	Richard
<u>Proteaceae</u> 197		
28	Personia Toru	A. Cunningham
29	Knightia Excelsa	Brown.
<u>Laurinae</u> 200		
30	Laurus Taraire	A Cunningham
31	L. Tawa	A Cunningham
32	L. calicaris in flower, Sep. 3/39 Waikare	Solander
	L. Victoriana	W.C.

33	Koporokaiwiri or Pukatea? }		<u>Atherospermae</u> 189	
			33	Laurelia Novae Zelandiae A. Cunningham
34	Puka	Kkawa, Waikare,		
35	Heruna		<u>Polygonae</u> 211	
36	Pohuehue	Dense bushes seashore	34	Polygonum Australe Coccoloba australis Linne 645 Endlicher
37	Tutunahua	in pools	35	P. adpressum Brown
38	Runa?		36	P. complexum A Cunningham
39		low situations, Waitangi, Kkeri	37	P. prostratum Richard
			38	Rumex crispus Linnaeus
40	Poipapa	Greyish, cinereous plants on weather Beaches :— Bay Islands.	39	R. Brownianus valves, much fimbriated Camp
			<u>Chenopodeae</u> 208	
			40	Chenopodium triandrum 3 <u>stamens</u> ; <u>leaves</u> cordate- sagittate; <u>spikes</u> terminal, leafless, interrupted. (μ) Forster

41		Sandy shores, B. Islands
42		Shores; B. Islands
43		Salt marshes – leaves subulate, semi-cylindrical – flowers sessile
44		
45		rocks washed by sea
46	Nahui	Procumbent in bogs; B. Islands
47	Kohukohu	Dry banks, among Ferns
48	Parerarerera	Banks, Thames & Kkawa
49		Dry banks, seashore

41	Chenopodium Botrys.	Willdenow
42	C. glaucum	Willdenow
43	C. maritimum	Willdenow
44	C. fruticosum Salsola fruticosa, L. 442	Schultes.
45	Salicornia indica	Brown
	<u>Amaranthaceae</u> 207	
46	Alternanthera denticulata	Brown.
47	Mniarum biflorum 213	Linnaeus
	<u>Plantaginiae</u> 267	
48	Plantago major	Linnaeus
49	P. varia	



				<u>Primulaceae</u> 274 223	
50				50 Anagallis arvensis	Linnaeus
51				51 Samolus littoralis	R. Cunningham
				<u>Scrophularinae</u> 288	
52	Napuka	S. Head, Hokianga; Sand hills. 6 p. Blue flower: leaf knobbed at apex		52 Veronica speciosa	R. Cunningham
53	Koromiko	skirts forests		53 V. salicifolia	Forster
54		Racemes subterminal, erect; glabrous-leaved, & leaves nerveless & broader at base than V. salicifolia		54 V. macrocarpa	Vahl
55		close woods, hills; B. Islands		55 V. ligustrifolia	A. Cunningham
56		seashore		56 V. angustifolia	Richard
57		leaves linear-lanceolate		57 V. parviflora	Vahl
58		Cook's straits. leaves elliptic		58 V. elliptica	Forster
59		Middle Island. leaves serrate, linear		59 V. catarractae	Forster
60	Piriti	Head of Waikare, falls, Kkeri, – large shrub		60 V. diosmifolia	A. Cunningham

61		recumbent; Paihia, Waimate
62		bogs, bet: Waimate & Kerikeri
63		Rocks washed by sea; Tolaga Bay. See Linné, 941. Didynamia, Angiosp. – leaves wedge ovate toothed at top, lobes of corol slightly emarginate
64	Waiuatua	In woods; nr. Haumi; Kkeri
65	Kohoho	
66	Poporo	

61	Veronica calycina	Brown
62	Gratiola sexdentata	R. Cunningham
63	Euphrasia cuneata	Forster
	<u>Cyrtandraceae</u> 283	
64	Rhabdothamnus solandri	A. Cunningham
	<u>Solaneae</u> 293	
65	Solanum laciniatum	Brown
66	S. nigrum?	W.C.

67	Ngaio	see Linné, 992
68		Middle island; leaves oblong elliptic, serrate pubescent
69	Mànawa (Bark used at Rio for tanning.)	Mud flats – B. Islands. – see Linné, 997
70	Puriri	
71		Mangungu & Mangamuka Hokianga: small, thyme like Kaitaia, & coast nr. C. M. v. Diemen

	<u>Myoporinae</u> 279	
67	Myoporum laetum	Forster
68	M. pubescens	Forster
69	Avicennia tomentosa	Linnaeus
	<u>Verbenaceae</u> 277	
70	Vitex littoralis	A. Cunningham
	<u>Labiatae</u> 275	
71	Micromeria Cunninghamii	Bentham

72		Dry rocky elevated spots, Wangaroa. procumbent: hairy; small
73		among Fern, Hills. see Linné 272
74	Pohuehue	B. Islands: marshy grounds
75	Panahi	B. Islands: shores.
76		Kkawa; Banks Hokianga purple
77		Bay Islands; Paihia point
78		Rocks washed by sea: Dy. Bay
79		Rare, bleak summit of loftiest hills Dusky Bay

	<u>Boraginae</u> 274	
72	Anchusa spathlata	Roëmer
73	Myosotis Forsterii	Endlicher
	<u>Convolvaceae</u> 231	
74	Calystegia Sepium	Brown
75	C. Soldanella	Roëmer
76	Ipomoea pendula	Forster
77	Dichondra repens	Forster
	<u>Gentianeae</u> 296	
78	Gentiana Saxosa	Forster
79	Gentiana montana	Forster

80		Bogs, Mangamuka; slender plant
81	Hangehange	Dry woods; B. Islands
82	Kaikuku	Shaded woods; Wanga. Hokga. creeper from Pateretere <i>Periplocea capsularis</i> Forst. Linné I. 423 ?
83		Tree 25 p. Banks rivers – The Iron wood, Norfolk Island. Leaves elliptic, opp. entire; flowers racemes opposite; without petals. Diand. monog. Linn. No. 35, Linné.

80	<i>Sebaea gracilis</i>	A. Cunningham
	<u>Loganieae</u> 306	
81	<i>Geniostoma ligustrifolium</i>	A. Cunningham
	<u>Apocyneae</u> 299	
82	<i>Parsonsia heterophylla</i> ** 2 other creepers resembling this – Kkawa, forest.	
	<u>Oleineae</u> 307	
83	<i>Olea apetala</i> 2 stamens only	Vahl

84		Shores off Cavalles. Small tree
85	Tipau	
86		Hd. of Waikare R. & Station Hokga. Shrub
87	Mingi	small plant, leaves prickly
88	Akipiro	large shrub; close forests, Kkawa
89		Fern; hills, B. Islands –
90		Summits loftiest, barrenest, mountains
91	Kotaratarā	Open heathy spots, shores, B. Islands

	<u>Sapoteae</u> 225	
84	Achras costata	Endlicher
	<u>Myrsineae</u> 224	
85	Myrsine Urvilliae	D’Candolle
86	M. divaricata	A. Cunningham
	<u>Epacrideae</u> 222	
87	Cyathodes acerosa	Brown
88	Leucopogon fasciculatus	A. Cunningham
89	L. Fraseri	A. Cunningham
90	Pentachondra pumila	Brown
91	Epacris pauciflora	Richard

92	Nene	
93		Middle Island
94	Warekohu	open fern grounds; B. Islands.
95		Banks Kkeri; on rocks
96		open fern lands.
97		Middle Island
98		pebbly bed of Kkeri river, near falls
99		among Ferns, coasts, B. Islands 1-petaled; aloft at top
100		Sea coast on rocks, B. Islands

92	Dracophyllum latifolium	A. Cunningham
93	D. longifolium	Brown
94	D. Urvillianum	Richard
95	D. Lessonianum	Richard
<u>Ericaceae 220</u>		
96	Gaultheria antipoda	Richard
97	G. rupestris	Brown
98	G. fluviatilis	A. Cunningham
237 <u>Campanulaceae</u>		
99	Wahlenbergia gracilis	Richard
<u>Lobeliaceae 235</u>		
100	Lobelia alata	Brown

101	Wakapuru	Valley, Wangaroa.
102	Papapa	Shores, Kkeri & Kkawa
103		Stagnant water, basins rocks, Kkeri river, near fall.
104	Oru	Damp woods, Matauri.
105		Cook's Straits
106		Dusky bay; vide A.C.'s letter Jany./39
107	Remuremu Rekoreko Raumangu }	Saltwater creeks, coast
		Sea coast near Cavalles: tufted in hinder part of leaves

101	Lobelia angulata	Forster
102	L. littoralis	R. Cunningham
103	L. submersa	R. Cunningham
104	L. physaloides	A. Cunningham
	<u>Stylideae</u> 240	
105	Stylidium spathulatum	Brown
106	Forstera sedifolia	Willdenow
	<u>Goodenoviae</u> 241	
107	Goodenia repens	Brown
	see 242	
108	Scaevola Novae Zelandiae peculiar stigma	R. Cunningham



				<u>Compositae</u> 251	
109		Fern; hills; B. Islands	109	Scorzonera scapigera	Solander
110			110	Sonchus oleraceus	Forster
111		Dandeln. Sea coast – calyx smooth	111	Picris hieracioides	Linnaeus
112		Hills, among Fern– calyx rough	112	P. attenuata	A. Cunningham
				§ <u>Vernoniaceae</u> 255	
113		Mercury Bay	113	Shawia paniculata	Forster
				§ <u>Asteroidae</u>	
114	Orooro	Tree; 12p., damp woods, Kkawa, &c	114	Solidago arborescens	Forster
115		Common Bellis	115	Lagenophora Forsteri	A. Cunningham
116		among ferns; pilosus leaved	116	L. lanata	A. Cunningham

117		Mossy Rocks; Dusky Bay
118		large-leaved.
119		Banks rivers; Bay Islands.
120		Cook's Straits
121	Kohiriki	
122		1436. L.
123		Swampy grounds, B. Islds: – Glen.
124		margins, freshwater streams remindg. me of camomile
125		Cook's Straits * <u>calyx</u> , common, imbricate; <u>corolla</u> , compound, tubular; <u>filaments</u> 5, <u>anthers</u> cylindric; <u>seeds</u> feathered, downy; <u>receptacle</u> , chaffy; <u>florets</u> in depressed bundles hermaphrodite, tubular.
126		Sandy ridges, shores, Hokianga
127		
128		

117	Aster holosericeus	} 1399 Linné	Forster
118	A. coriaceus		Forster
119	Haxtonia furfuracea		A. Cunningham
120	Vittadenia australis		Richard
	§ <u>Senecionideae</u> 261		
121	Bidens pilosa		Linnaeus
122	Cotula coronopifolia		Linnaeus
123	Myriogyne minuta		Lessing
124	Soliva tenella		A. Cunningham
125	Craspedia uniflora* 1489 L		Forster
126	Cassinia leptophylla		Brown
127	Ozothamnus pinifolia		Brown
128	Helichrysum bellidioides 1374 Linné		Persoon

129	Pukatea		129	Gnaphalium luteoalbum	Linnaeus
130		Bay Islands: among Fern	130	G. simplex	Richard
131		Hills; near Kkeri Station	131	G. 1364 Linne lanatum Herb. woolly, <u>leaves</u> linear-oblong callous mucronate at tip; <u>corymb</u> contracted, <u>stalk</u> simple.	Forster
132		B. Islands	132	G. (1369 L.) involucratum Herb. <u>leaves</u> linear-elongated mucronate tomentose underneath, head terminal leafy (μ)	Forster
133		near Kkeri falls	133	G. Keriense	A. Cunningham
134		Dusky Bay p. 1360, Linné	134	G. trinerva	Forster
135		Dusky Bay 1421 L.	135	Arnica operina	Forster
136		See “Calea leptophylla”, Les.	136	Senecio lautus (1364 1391 Linné)	Solander
137		p. 1347, Linné	137	S. australis 1391. L.	Willdenow
138		do “Artemisia biennis”	138	S. neglectus	Richard
		p. 1358, Linné	139	S. argutus	Richard
139		Bay Islands	140	S. quadridentatus	Willdenow
140		Sea coast; near B. Islands,	141	S. hispidulus	Richard
141		Among Fern; Wangaroa	142	Brachyglottis repanda	Forster
142	Pukapuka		143	B. rotundifolia	Forster
143		1413 Linné }			

144	Rani	Banks rivers; B. Islands	144	Brachyglottis rani	R. Cunningham
				See Calendula 1476, L.	
				<u>Rubiaceae</u> 243	
145	O. has 1 cell and 1 seed	Tetrand. monog. see p. 202, Linné	145	Opercularia diphylla	D'Candolle
146	stamens unequal to lobes of corolla	Shores; B. Islands	146	O. aspera	D'Candolle
147	Fruit double, Leaves whorled witht. stipules	Damp woods; Kkeri	147	Galium tenuicaule	A. Cunningham
148	stem angular(?) flowers minute	Shaded woods; Wangaroa	148	G. propinquum	A. Cunningham
149		Banks rivers; B. Islands	149	Coprosma lucida	Forster
150	Mātā	B. Islands; alluvial ground; fetid calyx 1-leaved, 5-toothed; corolla 5 or 6 cleft, stamina 5–7; berry 2- seeded – flowers solitary	150	C. foetidissima	Forster
151		shaded woods; Wangaroa closely allied to C. foetidissima; flowers less crowded, leaves smaller	151	C. propinqua	A. Cunningham
152		dry woods, Wangaroa: red drupe	152	C. rotundifolia	A. Cunningham
153		slender shrub; banks, Kkeri, & Kkawa; red berry	153	C. gracilis	A. Cunningham
154		Banks, Kkeri river.	154	C. rhamnoides	R. Cunningham
155		Dry woods; Wangaroa	155	C. divaricata	A. Cunningham

156		Salt marshes: sandy ridges, nr. shore, Hokianga	156	<i>Coprosma acerosa</i>	A. Cunningham
157		Cook's Straits	157	<i>C. repens</i>	Richard
158		Shaded woods, Waimate, &c	158	<i>C. spathulata</i>	A. Cunningham
159	Patete	Southward.	159	<i>Ronabea australis</i>	Richard
160		Sides fall, & Cavern; Kkeri fall.	160	<i>Nertera depressa</i>	D'.Candolle
161		Dry woods, shores B. Isld's: resembling former, <i>N. depressa</i>	161	<i>Geophyla dichondraefolia</i>	A. Cunningham
<u>Loranthaceae</u> 49					
162		Parasitical on <i>A. tomentosa</i> , Kkawa. Leaves ovate, very entire: racemes on branches & terminal, berry infr., 1 seeded & calyx 0, petals 4	162	<i>Viscum antarcticum</i>	Forster
163		Trees, banks rivers, B. Islands	163	<i>V. pubigerum</i>	A. Cunningham
164		on Kahikatoa ( <i>L. scoparium</i> ) K.keri	164	<i>V. salicornioides</i>	A. Cunningham
165		on <i>Vitex littoralis</i> ; Wangaroa	165	<i>Loranthus tetrapetalus</i>	Linnaeus

			Genus <u>Corneis</u> affine. See 49	
166	Margins dry woods; Bay Islands	166	<i>Alseuosmia linariifolia</i>	A. Cunningham
167	Shaded woods; Wangaroa	167	<i>A. ligustrifolia</i>	A. Cunningham
168	Skirts woods; Bay Islands	168	<i>A. Banksii</i>	A. Cunningham
169	Dense forests; Wangaroa	169	<i>A. palaeiformis</i>	A. Cunningham
170	Dry woods; Wangaroa	170	<i>A. atriplicifolia</i>	A. Cunningham
171	Shaded woods; bet: B. Islds & Hokga.	171	<i>A. Ilex</i>	A. Cunningham
172	Dry woods; shores; B. Islands	172	<i>A. quercifolia</i>	A. Cunningham
173	Margins dry Woods; Hokianga leaf like Warangi	173	<i>A. macrophylla</i>	A. Cunningham
			✂ Umbelliferae 21	
174	wet grounds, nr. Kerikeri	174	<i>Hydrocotyle elongata</i>	A. Cunningham
175	Damp banks, Hokianga	175	<i>H. microphylla</i>	A. Cunningham
176		176	<i>H. Novae Zealandiae</i>	D'Candolle

177	Bogs; Waimate & Kkeri	177	Hydrocotyle dichondraefolia	A. Cunningham
178		178	H. heteromeria	D.'Candolle
179		179	H. compacta	D.'Candolle
180	Fol. 7-lobed, serrate, villous	180	H. moschata	Forster
181	Low marshy grounds; Wangaroa kidney form, tooth crenate, many together at joint of stalk	181	H. Asiatica	Linnaeus
182	Sea coast, near Wangaroa: Beaches, B. Islands:	182	Petroselinum prostratum	D.'Candolle
183	Saltwater creeks, Wangaroa	183	P. filiforme	Richard
184	Cloudy Bay (see 468, Linnè)	184	Ligusticum Aciphylla	Sprengel
185	Cloudy Bay 478 Linne	185	L. Gingidium	D.'Candolle
186	Leaves roundish reinform crenate, calyx 5 parted.	186	Peucedanum geniculatum	Forster
187		187	Apium graveolens	Linnaeus
			<u>Araliaceae.</u> 25	
188		188	Panax simplex	Forster

189	Wauwaupaku	
190	Wauwau	range of Tide; coast; B. Isld's.
191		
192	Pate	See <u>Scheff. digitata</u> , p. 509, Linné
193	Horoeaka	
194	See, Escalloniaceae, 27.	Forests, source of Kkawa.
195		Damp woods; East Coast.
196		Margins, shaded forests; B. Islands.
197		Dry woods, nr. B. Islands
198	Towai	Weinmannia racemosa, Linné, 641
199	Makamaka	Shaded woods; Hokianga

189	Panax arboreum	Forster
190	Cussonia Lessonii	Richard
191	Polyscias pinnata	Forster
192	Aralia schefflera	Sprengel
193	A. crassifolia	Solander
	<u>Saxifragaceae</u> 162	
194	Quintinia serrata (27)	A. Cunningham
	Cunoniaceae 161	
195	Weinmannia betulina	A. Cunningham
196	W. fuchsioides	A. Cunningham
197	W. sylvicola	Forster
198	Leiospermum racemosum	Don
199	Ackama rosaefolia	A. Cunningham



200		Middle Island Tetrand. Tetrag.
201		Islets, B. Islands see Linné 813
202		sandy beaches see Linné 810
203	Kohe	near Waimate; margins forests
204	Māwāi	Tapere; Waikare river

Houseleek		<u>Crassulaceae</u> 163	
200	Tillaea verticillaris		D’Candolle
		<u>Ficoideae</u> 56	
201	Mesembryanthemum australe		Solander
		Tetragoniaceae 209	
202	Tetragonia expansa		Solander
		<u>Passifloreae</u> 67	
203	Passiflora tetrandra		A. Cunningham
		<u>Cucurbitaceae</u> 57	
204	Sicyos australis		Endlicher

					suborder of Onagraceae	
				650 Linné	<u>Halorageae</u> 37	
205	Toatoa	open fern grounds; B. Islands.	205	Cercodia erecta		D'Candolle
206		among fern; B. Islands	206	C. alternifolia		A. Cunningham
207		dry exposed rocky hills; Wangaroa	207	C. incana		A. Cunningham
208		among fern, hills, shores; B. Islands	208	Goniocarpus tetragynus		D'Candolle
209	Piripiri	In bogs; near Kkeri river	209	G. citriodorus		A. Cunningham
210		low boggy grounds; Wangaroa	210	G. depressus		A. Cunningham
211		Bogs, Paihia; Kkeri station	211	Myriophyllum propinquum		A. Cunningham
					<u>Onagrariae</u> 35	
212	Kohutuhutu	margins woods.	212	Fuchsia excorticata		Forster
213	Totera	Sands, Matauri off Cavalles; flowering in March	213	F. procumbens		R. Cunningham
214		banks Kkeri; dry situations; – also bogs: leaflets opp. regular	214	Epilobium nummularifolium		R. Cunningham
215		near Lake; bet. W. & Hokianga Forest.	215	E. pedunculare		A. Cunningham

216	Sandy places; Middle Island	216	<i>Epilobium microphyllum</i>	Richard
217	alluvial banks; Waitangi; Motu-o-rangi, &c.	217	<i>E. rotundifolium</i>	Forster
218	among Fern; dry open spots, Waimate	218	<i>E. thymifolium</i>	R. Cunningham
219	bet.: Waimate & Kkeri stations	219	<i>E. alsinioides</i>	A. Cunningham
220	bogs; banks of Kkawa	220	<i>E. nerterioides</i>	A. Cunningham
221	woods; near Kkeri falls	221	<i>E. atriplicifolium</i>	A. Cunningham
222	Banks, Hokianga river	222	<i>E. pubens</i>	A. Cunningham
223	Shady stations, edges woods, Wangaroa	223	<i>E. cinarium</i>	A. Cunningham
224	Margins woods, Waitangi falls	224	<i>E. incanum</i>	A. Cunningham
225	Margins woods, nr. shore, Wangaroa	225	<i>E. hirtigerum</i>	A. Cunningham
226	woods, Kkeri falls; hd. of Kkawa	226	<i>E. virgatum</i>	A. Cunningham
227	bet. Waitangi & Kkeri rivers leaves oblong toothed obtuse, bottom ones opposite, stem roundish erect.	227	<i>E. glabellum</i>	Forster
228	among grass, banks rivers, Wangaroa	228	<i>E. confertum</i>	A. Cunningham
229	Mercury Bay: low wet grounds Wangaroa	229	<i>E. pallidiflorum</i>	Solander
230		230	<i>E. junceum</i>	Solander

231		shady places; fern; Waikare river	231	Epilobium haloragifolium	A. Cunningham
232	Kahikatoa	leaves ovate, mucronate, Hills, &c B. Islands. 3-nerved; calycine teeth falls		<u>Myrtaceae</u> 43	
	see Linne p. 790		232	Leptospermum Scoparium L. Thea	Forster
233	Kahikatoa; Rawiri	leaves linear lanceolate, slightly muct. bogs; banks of Kkawa 1-nerved; calycine teeth remg.	233	L. ericoides	Richard
234	Aka	Forests, B. Islands	234	Metrosideros buxifolia	A. Cunningham
235	Torotoro	Forests, B. Islands	235	M. perforata	Richard
236	Ratà	Forests, B. Islands	236	M. robusta	A. Cunningham
237	Pohutukawa	Seaside	237	M. tomentosa	Richard
238	Rakapika	Forests, B. Islands see Linné, p. 792	238	M. florida	Smith
239		dense forests, Wangaroa; adhering to trunks large trees. Linné. p. 792	239	M. diffusa	Smith
240			240	M. lucida	Forst: Rich:
241		dense forests, Wangaroa; ahering to trees.	241	M. hypericifolia	A. Cunningham
242		Forests, Wangaroa	242	M. salicifolia	A. Cunningham

243	Maire tawake	Banks rivers
244	Ramarama	Shady woods; B. Islands.
245	Pirikahu	
246	Tataramoa	common see Linné, 823
247		Wangaroa – (fruit, bunch 12 in. long)
248		dense woods; Wangaroa
249	Kowai	Kkeri: foliolis, 25–41
250		Thames: foliolis, 17–21; leaflets $\frac{3}{4}$ in. in length
251	Kowaingutukaka	Taranake Isld., Kkeri.

243	Eugenia maire	A. Cunningham
244	Myrtus bullata	Solander
<u>Rosaceae</u> 143		
Suborder Sanguisorbeae 148		
245	Acaena sanguisorbae	Vahl
246	Rubus australis	Forster
247	R. schmidelioides	A. Cunningham
248	R. cissioides	A. Cunningham
<u>Leguminosae</u> 148		
249	Edwardsia microphylla	Salisbury
250	E. grandiflora	Salisbury
251	Clanthus puniceus Lotus arboreus? Linné, 1247	Solander

252		Leaflets jointed; nr. N. Cape
253	Maukoro	Kkawa; Waimate
254	Piripiriwata	Mawe, by Lake, small, white
255	Tataramoa	M. Island
256	Kumarahou	B. Islands
257	Tauhinu	B. Islands
258	Korokiataranga	Margins woods; B. Islands

252	Guilandina Bonduc	Linnaeus
253	Carmichaelia australis	Brown
	<u>Rhamneae</u> 107	
254	Carpodetus serratus	Forster
255	Pennantia corymbosa	Forster
256	Pomaderris Kumarahou	A. Cunningham
257	P. ericifolia	A. Cunningham
	Genus <u>novum Rhamneis</u> affine	
258	Corokia buddlaeoides	A. Cunningham

259		Tree: margins woods, Wangaroa Kaitaia forest, nr. road
260	Tupakihi	
261	Warangi	Mr. Kings, on hill; hills, B. Islands 3 leaves in a whorl
262		Forests; sources Hokga. river

	Genus novum ordinis manifestae inter Brexiaceas et Celestrineas	
259	Ixerba brexioides	A. Cunningham
	<u>Coriariaeae</u> 141	
260	Coriaria sarmentosa	Forster
	<u>Rutaceae</u> 130	
261	Melicope ternata	Forster
262	M. simplex	A. Cunningham

				<u>Oxalideae</u> 140	
263	Yellow; common; B. Islands	263	Oxalis Urvillei	A. Cunningham	
264	Flores albi; Kk. fall.	264	O. catarractae	A. Cunningham	
265	bogs; Hokianga	265	O. propinqua	A. Cunningham	
266	B. Islands	266	O. exilis	A. Cunningham	
267	Sea Coast, Matauri, Cavalles	267	O. divergens	A. Cunningham	
268	among Fern, Shores, B. Islands	268	O. tenuicaulis	A. Cunningham	
269	Mawe Lake	269	O. laticola	A. Cunningham	
270	Shores B. Islands – bet. Waimate and Kerikeri	270	O. ciliifera	A. Cunningham	
271	Shores B. Islands	271	O. crassifolia	A. Cunningham	
				<u>Geraniaceae.</u> 187	
272	leaves laciniated. Linné, 1081	272	Geranium pilosum	Forster	
273		273	G. retrorsum	L’Herit.	



274		large leaved
275		Hills among fern Kkeri, B. Islands “prostrato tetragono foliis ovalis.”
276	Kohekohe	Damp forests; Banks rivers; B. Islands
277	Titoki	
278	Ake	Dry woods; B. Islands “viscidis, subspathulatis”

274	Pelargonium clandestinium	L’Herit.
	<u>Hypericineae</u> 77	
275	Hypericum pusillum	D’Candolle
	<u>Meliaceae</u> 101	
276	Hartighsea spectabilis see Trichilia s. Linne	Jussieu
	<u>Sapindaceae.</u>	
277	Alectryon excelsum	Gaertner
278	Dodonaea spathulata	Smith


279	Hohere Ongaonga	large ornamentl. shrub; B. Islands Forest, hd. of Kkawa river.
280	Wau	B. Islands
281	Hinau	Forests; B. Islands Linné, 848.
282	Makomako	margins streams; B. Islands see Linné, 848.
283	Ake	Salt marshes; Haumi, Linné, 1085

<u>Bombaceae.</u> 92		
279	Hoheria populnea	A. Cunningham
<u>Tiliaceae</u> 99		
280	Entelia arborescens (99)	Brown
<u>Elaeocarpeae.</u> 97		
281	Elaeocarpus Hinau	A. Cunningham
282	Friesia racemosa	A. Cunningham
<u>Sterculiaceae.</u> (see Euphorbiaceae 116)		
283	Plagianthus divaricatus	Forster

284		Tree 70 pedalis; hd. of Kkawa	284	Plagianthus betulinus	A. Cunningham
285		6–8 p. among under., bks. Kkawa	285	P. urticinus	A. Cunningham
			Mallow <u>Malvaceae</u> 95		
286		Hills, nr. Mangamuka; Ngaire, opp. Cavalles my plant from Coast. see Linné p. 409, 1115	286	Hibiscus vesicarius	Linnaeus
			<u>Lineae.</u> 89		
287		Taranake; bare rocks, B. Islds.	287	Linum monogynum <u>calyx</u> acute; <u>leaves</u> linear-lanceolate even; <u>stem</u> round, shrubby, & branched at base (μ)	Forster
			chickweed <u>Caryophyllaceae.</u> See Alsinaceae 125		
288	Noténoko	on rocks, sea coast; M. Island	288	Arenaria media	Linnaeus
289		country bet. Waimate & Hokga.	289	Stellaria media	Linnaeus

290		minute plant, bog, glen;
291	Tarata 2	Matauri, opp. Cavalles: Leathery leaf, downy under
292	3	Haumi wood; shores, B. Islds.
293		Shores, Onawero Bay, Wangaroa myrtle-leaved
294	Kohuhu 1	Beach, Ti; banks, Kkawa.
295	Karo 4	
296		Thickets, slopes hills, B. Islands
297		Dry woods, shores, B. Islands
298		roots, Dammara, near hd. of Kkawa, in forest, habits, akin to <i>P. reflexum</i>

<u>Elatineae.</u> 88		
290	Elatine gratioloides	A. Cunningham
<u>Pittosporeae.</u> 31		
291	Pittosporum crassifolium	Solander
292	<i>P. umbellatum</i> in flower Sept. Kkawa	Solander
293	<i>P. eugeniioides</i>	A. Cunningham
294	<i>P. tenuifolium</i>	Solander
295	<i>P. cornifolium</i>	A. Cunningham
296	<i>P. reflexum</i>	R. Cunningham
297	<i>P. pinieoleoides</i>	R. Cunningham
298	<i>P. radicans</i>	R. Cunningham
	5 – the one from coast	
	6 –	
	7 –	

		 leaves circinate in vernation			<u>Droseraceae.</u> 66	
299		Boggy grounds; <u>Kkeri</u> station radicle leaved	299	Drosera propinqua		A. Cunningham
300		foliolis bifidus: in bogs; Kkeri river <del>Hills. Kk fall</del> common sp.	300	D. intermedia <del>D. peltata</del> collina		A. Cunningham W.C.
301		among Fern; Missn. Statn. Kerikeri leaves simple, stipulate Beyond oropa, in road to orauta Jany 5/40 WC	301	Erpetion spathulata		Don
302	Mahoe	Skirts forests; banks streams	302	Melicytus ramiflorus		Forster
303		Shady forests, betn. B. Islds. & Hokga.	303	M. macrophyllus		A. Cunningham

					<u>Cruciferae.</u> 58	
304		shores Thames.		304	Nasturtium sylvestre	Brown
305		Banks of running streams		305	Cardamine debilis	Solander
306		sandy shores, B. Islands, Paihia Linne, 1014		306	Alyssum maritimum	D'Candolle
307		shores, B. Islands: Tapere, Waikare Linné, 1019		307	Lepidium oleraceum	D'Candolle
					Sisymbrium heterophyllum Linné 1025	Forster
					<u>Magnoliaceae</u> (See Winteraceae, 17)	
308	Toro	See Linné, 867 calyx 3-lobed: petals 6–12, germs clavate. Peduncles axillary crowded 1-flowd., pistils 4– Bark pungent polyandria – (20–1000 stamina)		308	Drimys axillaris	Forster
					<u>Ranunculaceae</u> 5	
309		Bog, Paihia; channel, Kkawa & Waitangi rivers:		309	Ranunculus rivularis	Solander
310		Haumi; watercourses My. Bay		310	R. acaulis	Solander
311		watercourses; shores, B. Islds. Linné, 885		311	R. acris	Linnaeus

312		Kahio river, Wangaroa
313		near Tauraki, Hokga.: Uawai Bay
314	Puawānanga	margs. woods; shores, B. Islands Linné 879
315		thickets, Wangaroa cordate leaved
316		Cook's straits Linné 878
317	Karaka	
318		Cook's straits

312	Ranunculus plebeius	Brown
313	R. hirtus	Solander
314	Clematis indivisa	<del>Willdenow</del> Forster
315	small greenish one C. parviflora	A. Cunningham
316	C. hexasepala	A. Cunningham
Appendix.		
see Myrsinaceae 224		
317	Corynocarpus laevigata	Forster
318	Griselinia lucida (see 526)	Forster
	Xylosma orbiculatum	

319	on rocks; great fall, Kkeri
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<u>Monocotyledoneae</u>		
<u>Musci calyptrati</u>		
319	Sphagnum latifolium	Hedwig
320	Gymnostomum gracile	Hooker
321	G. macrocarpum	Sprengel
322	G. leptostomum	Hooker
323	Polytrichum subulatum	Sprengel
324	P. dendroides	Sprengel
325	P. tenuirostrae	Hooker
326	Dicranum glaucum	Brid
327	D. Billardieri	Brid
328	D. dicarpon	Sprengel
329	Trichostomum perichaetiale	Hooker
330	Leucodon calycinus	Hooker



331	<i>Zygodon conoideum</i>	Hooker
332	<i>Orthotrichum prorepens</i>	Hooker
333	<i>O. longirostrum</i>	Hooker
334	<i>O. longipes</i>	Hooker
335	<i>O. gracile</i>	Hooker
336	<i>Neckera planifolia</i>	Hooker
337	<i>N. setosa</i>	Hooker
338	<i>Bartramia pendula</i>	Hooker
339	<i>Codonoblepharum Menziesii</i>	Sprengel
340	<i>Bryum bartramoides</i>	Hooker
341	<i>B. dichotomum</i>	Sprengel
342	<i>Hookeria pennata</i>	Smith
343	<i>H. quadrifaria</i>	Smith
344	<i>H. rotulata</i>	Sprengel
345	<i>Leskea sulcata</i>	Hooker

346	<i>Leskea ericoides</i>	Hooker
347	<i>L. mollis</i>	Sprengel
348	<i>L. concinna</i>	Hooker
349	<i>Hypnum spiniforme</i>	Sprengel
350	<i>H. spininervium</i>	Hooker
351	<i>H. bifarium</i>	Hooker
352	<i>H. distichum</i>	Sprengel
353	<i>H. amoenum</i>	Sprengel
354	<i>H. leptorrhynchon</i>	Sprengel
355	<i>H. aciculare</i>	Sprengel
356	<i>H. gratum</i>	Sprengel
357	<i>H. comosum</i>	Sprengel
358	<i>H. Menziesii</i>	Hooker
359	<i>H. Neckerioides</i>	Hooker
360	<i>H. arbuscula</i>	Hooker

361	Hypnum flexile	Swartz
362	H. Mongeotianum	Richard
363	Racopilum tomentosum	Brid

Hepaticae

364	Jungermannia scolopendra	Hooker
365	J. saccata	
366	J. falcata	
367	J. adiantoides	
368	J. conjugata	
369	J. ramosissima	
370	J. gigantea	
371	J. pinnatifolia	
372	J. Billardieri	
373	J. sinuosa	
374	J. coalita	
375	J. squarrosa	
376	J. nobilis	
377	J. glaucescens	

				378	Jungermannia lanata		
				379	J. flagellifera		
				380	J. appendiculata		
				381	J. tomentella		
				382	J. pulchella		
				383	J. pendulina		
				384	J. microphylla		
				385	J. clavigera		
				386	J. palpebrifolia		
				387	J. Phyllanthus		
				388	J. flabellata		
				389	J. Hymenophyllum		
				390	J. eriocaulae		
				391	Anthoceros giganteus	Lehm	
		Marchantia – bog		392	Marchantia	R. Cunningham	
		Fimbriarea – Linn					

393		Parasc. on Cyathea – Paihia: Kkeri
394		closely allied to L. densum; slenderer
395		B. Islands; open fern lands; Wangaroa
396		Humid forests, Wangaroa
397		Parast. on Pohutukawa
398		In bogs, Kkeri, &c.
399		myrtifolium:
400	waewaekoukou	Hills, B. Islands.
401		
		sides Ravine, Busby’s Glen.
		Nihonui

	<u>Lycopodiaceae</u>	
393	Tmesipteris Forsterii	Endlicher
394	Lycopodium Lessonianum	Richard
395	L. densum	Brown
396	L. cernuum	Linnaeus
397	L. Flagellaria	Hooker
398	L. laterale	Brown
399	L. Phlegmaria	Linnaeus
400	L. volubile	Forster
401	L. D’Urvillaei	Richard
	<u>Marsiliaceae</u>	

402		Waimate, Taeamai
403		near Matauri, opp. Cavalles
404		Uruuruwena Lake (Mawe?)
405	waewae kaka	swampy, clayey grounds, Kkawa
406		Humid woods; Kkeri falls
407		
408		Kaitaia wood

	<u>Filices</u>	
	<u>Ophioglosseae</u>	
402	Botrychium australe	Brown
403	Ophioglossum coriaceum	A. Cunningham
404	O. elongatum	R. Cunningham
	<u>Gleicheniaieae</u>	
405	Gleichenia hecystophylla	A. Cunningham
406	G. flabellata	Brown
407	G. Hermanii	Brown
408	G. arachnoidea	A. Cunningham

409		Banks, Kkawa; Cavern, fall.
410	Mangemange	Glen, Paihia;
411		Hills, Paihia;
412		<del>Head of Kkawa</del>
413		Kahikatea wood, Kkeri
414		Trunks, living trees
415		Damp woods, nr. Waimate

		<u>Osmundeae</u>	
409		Todea pellucida	Hooker
		T. superba	W.C.
		<u>Schizeae</u>	
410		Lygodium articulatum	Richard
411		Schizaea propinqua	A. Cunningham
412		S. bifida	Swartz
413		S. dichotoma	Smith
		<u>Polypodeae</u>	
414		Grammitis scolopendria	Richard
415		G. australis	Brown
		G. ciliata	W.C.
		<u>Gymnogramma</u>	
		G. Novae Zelandiae	W.C.



					<u>Polypodium</u>	
416	Kowaowao	Rocks, Trees, B. Islands  humid woods, Kkawa.  shaded forests, Wangaroa  humid forests, Wangaroa	416	Polypodium attenuatum	Brown	
417			P. Billardieri	Brown		
418			P. pustulatum	Sprengel		
419			P. tenellum	Brown		
420			P. grammitidis	Brown		
			P. sylvaticum	W.C.		
			P. viscidum	W.C.		
				<u>Niphobolus</u>		
421		shaded woods, shores, B. Islands	421	Niphobolus rupestris	]Hooker	
422		rocks, trees, B. Islands	422	N. bicolor ?	]Hooker	
				<u>Lomaria</u>		
423		Head of Horotutu river	423	Lomaria lanceolata	Sprengel	
				L. heterophylla	W.C.	
				L. deflexa	W.C.	
				L. deltoides	W.C.	

				L. Banksii	W.C.
424	Humid woods; Kkeri falls		424	Lomaria discolor	Willdenow
425	shady woods; margins bogs,		425	L. procera	Sprengel
426	shaded woods, Wangaroa		426	L. filiformis	A. Cunningham
427	Limbs & Trunks Trees, woods		427	L. propinqua	A. Cunningham
428	Hills behind Horotutu		428	L. Fraserii	A. Cunningham
429	edges, running streams		429	L. crenulata	A. Cunningham
430	margins, streams		430	L. gigantea	A. Cunningham
	Large & small fronds on one rachis			L. polymorpha	A. Cunningham
				L. latifolia	W.C.
				L. linearis	W.C.
				L. nigra	W.C.
				<u>Allantodia</u>	
431	moist woods, shores, B. Islands		431	Allantodia tenera ?	Brown
				<u>Asplenium</u>	
432	Trees, &c, shaded woods		433	Asplenium falcatum	Swartz.

433		leaflets trapezoid acuminate acute doubly serrate, (pinnate)	433	Asplenium polyodon	Forster
434		pinnate, leaflets opposite, oblong-ovate, acuminate, serrulate	434	A. lucidum	Forster
435	Paritu: Parinoko	Dense forests, Wangaroa: Thames pinnate, stipes scaly, leaflets oblong, opposite, acuminate, serrate, outer margin shorter	435	A. obliquum	Forster
436			436	A. obtusatum	Forster
437		Waitangi Cataract: Puketona	437	A. flabellifolium	Cavanilles
438		Humid woods; Kkawa	438	A. bulbiferum	Forster
				A. Forsterianum	WC
				A. Hookerianum	W.C.
				A. Colensoi	Hook. fil
				<u>Caenopteris</u>	
439		parasitical, Trees; B. Islands	439	Caenopteris flaccida	Smith
				<u>Doodia</u>	
440		Hills; Paihia, Waitangi	440	Doodia aspera	?? Brown
441		Hills, with D. aspera	441	D. caudata	Brown

442		Dry woods; East Coast	442	Doodia Kunthiana	Hooker
443		stony slopes, woods, Kkawa	443	<u>Pteris</u>	
444		shady, dry banks, Kkeri, nr. station	444	Pteris comans	Forster
445	Aruhe: Roi:	hills & plains –	445	P. esculenta	Forster
446		margins woods; Wanga. Harbour	446	P. affinis	Richard
447		Dry woods, Wangaroa	447	P. macilentia	Richard
448		Waimate	448	P. Brunoniana	Endlicher
449		Glen, Paihia; Sea coast	449	P. scaberula	Richard
450		woods, Paihia	450	P. tenuis	A. Cunningham
451		Dry wooded hills, Wangaroa	451	P. microphylla	A. Cunningham
				P. montana	W.C.
				“ <u>Pt. humilis</u> , Fronds sub-bipinnate, leaflets oblong gashed sub-pinnate, the outmost obsoletely crenate confluent. Forster, N. Zealand.” Miller G. Dict. vol III	

452		Dry woods, Sea coast, B. Islands
453		Shores, Bay Islands
454		Declivities, dry, woody hills
455		Rocks; Kkeri station
456		Shores, Bay Islands
457	Pikopiko	Dry leafy woods, Tauranga
458		Hills, Paihia, Kkawa
459		Damp woods, Kkeri, Waitangi Fall

	<u>Adiantum</u>	
452	Adiantum affine	Brown
453	A. formosum	Brown
454	A. hispidulum	Brown
	A. falcatum	W.C.
	A. assimile	W.C.
	<u>Cheilanthes.</u>	
455	Cheilanthes tenuifolia	Brown
456	C. ambigua	Richard
	C. pellucida	W.C.
	<u>Lindsaea</u>	
457	Lindsaea Lessonii	Richard
458	L. linearis	Brown
459	L. trichomenoides	Willdenow
	L. viridis	W.C.

					<u>Loxsoma</u>	
460		Kerikeri, Great Fall	460	Loxsoma Cunninghamii	Brown	
				Davallia Novae Zealandiae	W.C.	
					<u>Dicksonia</u>	
461	Weki	woods, Bay Islands	461	Dicksonia squarrosa	Swartz	
				D. fibrosa	W.C.	
				D. lanata	W.C.	
					<u>Aspidium</u>	
462		margins running streams	462	Aspidium pennigerum	Swartz	
463		Glen, Haumi	463	A. vestitum	Willdenow	
464			464	A. serra	Willdenow	
465			465	A. proliferum	Brown	
466		shores, B. Islands	466	A. hispidum	Swartz	
467			467	A. velutinum	Richard	

468		Thames; B. Islands
469		Heads of Kkawa & Waikare rivers
470		Ravine, Paihia,
471	Ponga	woods, B. Islands
472	Korau: Mamaku.	woods, B. Islands
473		moist, shady woods, B. Islands, climbing Trees

468	Aspidium coriaceum	Sprengel
	A. Cunninghamianum	W.C.
	A. Waikarense	W.C.
	A. pulcherrimum	W.C.
	<u>Nephrodium</u>	
469	Nephrodium glabellum	Forster
470	N. molle	Brown
	<u>Cyathea</u>	
471	Cyathea dealbata	Swartz
472	C. medullaris	Swartz
	<u>Trichomenes</u>	
473	Trichomenes reniforme	Forster

474	wet rocks; falls, Kkeri
475	
476	Dark ravines, woods, B. Islands – Jungermannia parasitical
477	Damp woods, Hokianga
478	woods Waimate; Paihia;
479	Damp shady woods, B. Islands
480	Trunks decayed trees humid forests B. Islands
481	
482	Fallen Timber, B. Islands
483	decayed Timber, Humid forests, Wangaroa – Pateretere, nr. Waimate. – stipes wingd.
484	Dusky Bay – beautiful, Known by secondary segments of fronds pointing one way
485	

474	Trichomenes venosum	Brown
475	T. strictum	Hooker
476	T. elongatum	A. Cunningham
477	T. leptophyllum	A. Cunningham
	<u>Hymenophyllum</u>	
478	Hymenophyllum dilatatum	Hooker
479	H. sanguinolentum	Swartz
480	H. scabrum	Richard
481	H. tortuosum	Hooker
482	H. nitens	Brown
483	H. flexuosum	A. Cunningham
484	H. secundum	Hooker
485	H. multifidum	Swartz



486			486	Hymenophyllum semibivalve	Hooker
487		Trees, wet woods; Kkeri, fall;	487	H. minimum	Richard
488		wet rocks, Trees, shaded woods.	488	H. Tunbrigdense	Swartz
489			489	H. bivalve	Swartz
490			490	H. dimissum	Swartz
				H. imbricatum	W.C.
				H. atrovirens	W.C.
				H. Franklinianum	W.C.
				H. revolutum	W.C.
				H. pulcherrimum	W.C.
				H. spathulatum	W.C.
		on dry exposed banks, nr. Pouarua		Nothoclaena distans	
				H. villosum	W.C.
				Notholaena?	

					<u>Endogenae</u>	
					<u>Gramineae</u>	
				491	Agrostis crinita	Brown
				492	A. ovata	Brown
				493	A. rigida	Richard
				494	A. procera	Richard
				495	A. conspicua	Willdenow
				496	A. aemula	Brown
				497	A. Billardieri	Brown
				498	A. Forsteri	Richard
				499	A. pilosa	Richard
				500	Phalaris canariensis	Linnaeus
				501	Danthonia pallida	Brown
				502	Avena Antarctica	Brown
		Cloudy Bay				

Pennantia corymbosa

Class, XXIII.2: Polygamia Dioecia

Gen. Char.

Hermaph. Flow.—

Calyx, none.

Corolla. Petals, 5, lanceolate, acute, spreading much.

Stam. Filaments, 5, capillary, length of petals; anthers oblong incumbent.

Pist. Germ. sup., bluntly 3-cornered;  
style, none; stigma, flat, peltated, sub-trilobate.

Per. 3-sided, 2 celled.

Seeds. solitary, sub-triquetrous.

Male Flow.

Cal. & Cor. as in Hermaph. Flow.

Stam. Filaments 5, capillary, twice as long as petals; anthers, ovate, incumbent.

Ess. Char.

Cal. none; Cor. 5-petalled; Stam. 5; Per.  
3-sided, 2-celled, with solitary triquetrous Seeds.

(from Miller's Gard. Dicty., vol. III.)

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Carpodetus serratus

Cal – 5-toothed, subulate, deciduous: pet. 5, ovate, small: fil. 5, subulate, short, (with pet.) inserted in marg. of cal: anth. roundish. Germ, inferior: style, filiform, long: stigma, flatheaded: Berry, dry, globular; marg. of calyx round it like a ring; 5-celled: seeds. few. slightly angular

505	Patiti	Horotutu
506		Salt marshes
507		open Fern lands; B. Islands
508		
509		
510	Kakaho	
511	Tuhui	
512		
513	Moa	sandy shores
514	Karetu	

503	Bromus australis	Brown
504	Schenodorus littoralis	Palisot
505	Triticum scabrum	Brown
506	T. repens	Linnaeus
507	Poa australis	Brown
508	P. imbecilla	Solander
509	P. caespitosa	Solander
510	Arundo australis	Richard
511	Paspalum orbiculare	Forster
512	Rottbocellia uniflora	A. Cunningham
513	Spinifex sericeus	Brown
514	Torresia redolens	Roemer

515		shaded woods, Kkawa; near Torrents
516		
517		razor Grass
518		Boggy grounds; B. Islands
519		running in sands, with Spinifex s.
520	Kopoupou	
521		
522		Swamps, B. Islands
523		
524		
525	Toetoe (by woods)	
526		
527		seed fm. Pakarata wood
528		

<u>Cyperaceae</u>		
515	Cyperus ustulatus	Richard
516	Fuirena rubigenosa	Sprengel
517	Isolepis nodosa	Brown
518	I. setacea	Brown
519	I. spiralis	Richard
520	Scirpus lacustris	Brown
521	Vauthera australis	Richard
522	Elaeocharis sphacelata	Brown
523	E. acicularis	Brown
524	Schoenus imberbis	Brown
525	Lepidosperma elatior	Brown
526	Lampocarya lacera	Richard
527	L. setifolia	Richard
528	L. affinis	Brogniart

529		culm 3 ft., small; leaves longer, rough at edge & bristled at tip.
530	Koukourouri	Banks Torrents; woods.
531		
532		Shores, B. Islands.
533		
534		
535		Bay Islands.
536	Oioi	razor Grass: sandy shore, B. Isld.
537		

529	Gahnia procera	Forster
	<u>glume</u> , 2 valved, irregular; <u>nectary</u> , 2 valved; <u>stigma</u> , dichotomous; <u>stam.</u> 6; panicle spiked; flowers purple, seed brown. (μ)	
530	Uncinia australis	Brown
531	Carex polystachia	Richard
532	C. punctulata	Richard
533	C. recurva	Persoon
534	C. geminata	Willdenow
535	Morelotia Gahnaeformis	Gaudichaud
	Carex uncinata? Linne 1538	
	<u>Restiaceae.</u>	
536	Leptocarpus simplex	Brown
	<u>Junceae.</u>	
537	Juncus maritimus	Brown

538		
539		
540		
541	Kowarawara	Parasitl. on large Trees in forests broad-leaved
542		Parasitical, Trees, on banks of rivers – narrow leaved; pilosus.
543	Nikau	close forests; inland.
544	Rengarenga	cliffs; shores; B. Islands.

538	Juncus effusus	Linnaeus
539	J. filiformis	Linnaeus
540	Luzula picta	Richard
	<u>Melanthaceae.</u>	
541	Astelia Banksii	A. Cunningham
542	A. Solandrii	R. Cunningham
	<u>Palmae.</u>	
543	Areca sapida	Solander
	<u>Asphodelae.</u>	
544	Arthropodium cirrhatum.	Brown.

545	Turutu	Hills, B. Islands
546		Dusky Bay
547	Ti	Paihia; Waitangi.
548	Ti (ngahere)	Wai Purioi, nr. Paihia
549	Korari	Kkawa; Waikare
550	Kareao	woods, B. Islands
551		Islets, B. Islds.: among Loxsoma at Kkeri fall.
552		shady woods, nr. Kkeri river
553		Humid rocky banks, below fall, Kkeri river.

545	Dianella intermedia	Endlicher
546	Dracaena indivisa	Forster
547	Cordyline australis	Endlicher
548	C. stricta	Endlicher
549	Phormium tenax	Forster
	<u>Smilacaceae.</u>	
550	Ripogonum parviflorum	
	<u>Irideae</u>	
551	Libertia grandiflora	A. Cunningham
552	L. ixioides	A. Cunningham
553	L. micrantha	A. Cunningham
	see Ferraria ixioides Linné 1048	



			<u>Orchideae</u>		
554	Barren Hills; B. Islands.		554	Thelymitra Forsterii Linné, 1505 see below	A. Cunningham
555	Barren Hills, B. Islands		555	Orthoceras Strictum Linné, 1503	Brown
556	Barren Hills, B. Islands		556	Microtis Banksii	A. Cunningham
557	among moss, sides of streams, Kkeri river; Wangaroa		557	Acianthus rivularis	A. Cunningham
558	Glen, Paihia; shaded woods		558	Pterostylis Banksii	A. Cunningham
559	Roots of Trees, Rocks, &c., Kkeri Wangaroa		559	Gastrodia sesamoides	Brown
560	Hills behind Paihia,		560	Cyrtostylis reniformis	W.C.
561	Hills behind Paihia: Glen		561	Pterostylis collina	W.C.
562	Hills behind Paihia; Kkawa		562	Caladenia	W.C.
563	Paihia, among L. scoparium; & on fallen Trees, woods, Waimate		563	Acianthus fornicatus	A. Cunningham
564	Epiphyte; Glen, Paihia		564	Earina mucronata Linne 1515	Lindley
565	Epiphyte; Glen, Paihia		565	Dendrobium Cunninghamii	Lindley
566	Epiphyte; Glen, Paihia		566	Bolbophyllum pygmaeum	Lindley
567	Epiphyte; Papakauri fall, Kkeri		567	Sarcochilus	R. Cunningham
	Ridge Hills, bet. Kkawa & Oue do. do			Thelymitra grandiflora Thelymitra straminea	W.C. W.C.

		common Thel. broad leaved –
568	Taro	
569	Raupo	In marshes.
570	Kiekie Tawara }	climbing Trees, in woods,
571		salt creeks & swamps, Wangaroa arrow grass
572	Tutunawai?	stagnant waters, neigh. Kkeri station oval leaf, floating

	Thelymitra lineata	W.C.
	<u>Aroideae.</u>	
568	Caladium esculentum	Ventenat
	<u>Typhaceae.</u>	
569	Typha angustifolia	Linnaeus
	<u>Pandaneae.</u>	
570	Freycineta Banksii	A. Cunningham
	<u>Alismaceae.</u>	
571	Triglochin flaccidum	A. Cunningham
572	Potamogeton natans	Linnaeus

## Mems: Filices

Trichomanes – sori on a column arising from  
a receptacle }

Hymenophyllum – sori in a valved receptacle

Aspidium – sori under an involucre  
which is umbilicated

Nephrobium – sori under a theca

Polypodium – sori round, no involucre

Grammitis – sori oblong, no involucre

Asplenium – sori diagonal, dehiscing inwardly

Doodia – sori parallel to midrib, sometimes  
continuous, dehiscing inwardly

Adiantum – sori, in dots or lines on margin  
of fronds; involucre membranaceous,  
opening inwardly

Lindsaea – sori in a continuous line, on  
margin; opening inwardly.

Pteris – sori in a contins. marginal line;  
theca from the inflected margin of  
the frondlet, opening inwardly.




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(see p. 137, for contn. Mems. Filices.)

### Memorandums of Orchideous Plants

Acianthus rivularis: found by A.C. Esq. in a rocky watercourse, nr. the. old Wesy. Stat. Wangaroa – a single flower, extremities of perianthm. with long filaments – leaf, broad, cordate, – 1½ in high. 1826. Found by W.C. at Kerikeri, below Gt. Fall, – 1838. –

Gastrodia sesamoides: flower forming a tube, divided at the mouth into 5 lobes: Labellum included in the flower: Column large, hollow at the. apex; thickened at the base in front, where the. stigmatic gland exists.  
G. is occasionally epiphytcal on roots of trees: its roots, fleshy, branched & jointed: flower scape without leaves, but furnished with alternate short sheaths: Flowers in racemes whitish or ochre colr. Found by R.C. in the. vicinity of Wangaroa, 1834.

Dendrobium Cunninghamii –

Sarcochilus falcatus

\*\* Mr Brown, in the. appendix to the. Voyage of Flinders, observes – “in the 1st. Voyage of Cook the naturalists who landed in the bays of Tegadoo (Uawa) and Tolago, found several species of Orchideous Epiphytes, comprehended under the Linnean genus, Epidendrium, some of which remain yet unnoticed though collected in the year 1769.”

## Mems: Filices

Their stipes consist of sinuous strata of indurated, compact woody fibre, connected by cellular tissue.

The wood of Tree Ferns (F. with arborescent trunks) is formed by the cohesion of the bases of such stipes round a hollow or cellular axis.

Organs of reproduction are produced from the back or under side of the Frond.

Fronds,  
Frondlets Foliolis } the leaf

Petioles, Stipes,  
Rachis, Peridroma } the leaf stalk

Theca, a cover, or case }  
Capsule, a husk or bag } from the veins of leaves

Conceptacle,

Sori; clusters of theca

Annulus Gyrus, Gyroma, – ring or stalk uniting the  
Theca

Indusium,  
Involucrum, Membranula } a shield, the theca  
Glandulae squamosae, } when from beneath the  
cuticle

Sporules, seeds, which are inflammable

Receptacle, cup as in Hymenophyllum, Trichomanes

Mems: Musci : – or Bryaceae

Mosses have neither vessels nor woody fibre. their stem consists of elongated cellular tissue, from which leaves arise composed in like manner entirely of cellular tissue without woody fibre. Mosses are increased by sporules contained within an urn or theca, placed at the apex of a stalk or seta, having on its summit a loose hood (calyptra) and closed by a lid (operculum). Inside the urn has a central axis (columella), and the space between the columella and sides of the theca are filled with sporules: the orifice beneath the operculum is closed by a fringed membrane (peristomium): the number of teeth in the fringes is always some multiple of 4; from differences in the number, or cohesion of same, the generic characters are formed.

M. Theca, valveless with an operculum

Jungermanniaceae – theca opening by valves. & having  
an operculum

Hepaticae. theca with neither valves nor operculum

### Mems: Hepaticae

Their vegetation is called a frond or thallus; and is either a leafy branched tuft, as in Musci, with the cellular tissue very large; or a sinuous flat mass of green vegetable matter lying upon the ground.

Marchantia – a lobed flat green substance emitting roots from under: organs of reproduction are –  
1st. (Female) a stalked fungilliform receptacle, on its apex a calyptra – underside theca –

2nd. (Male) a stalked receptacle; plane upper surface, with oblong bodies imbedded vertically in its disk, & called Anthers.

3rd. (Viviparous apparatus). little open cups – (cystulae), sessile on the upper surface of the fronds, and containing minute green bodies (gemmae) which have the power of producing new plants –

anthoceros – with cup shaped receptacles

Hep. intermed. bet. Musci & Lichens – differs from Mosses in the want of an operculum

### Mems: Lichens.

Lichens have a lobed Frond or Thallus, the inner substance of which consists wholly of reproductive matter, and breaks through the upper surface in certain forms called fructifications

These forms are 2-fold –

1 – Shields, Apothecia, or Scutella, little cups or lines with a hard disk, surrounded by a rim and containing asci or tubes filled with sporules.

2 – Sorediae, (Globuli, Glomeruli,) – which are heaps of pulverulent bodies scattered over the surface of the Thallus.



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Forstera sedifolia, snowy mountains  
 Dusky Bay – vide AC's letter Jany. 9/39  
 found on Tongariro by Mr Bidwell /39  
 (see Linné, 1578)

at Waikare, (Jany. 4/41) in bush below the  
 pa – Viscum antarcticum  
 Tree (Norfolk Island, A.C.)  
 &c &c –

Tarangarara - sd. to be a curious plant, by natives.

Papaumu, sd. to be a kind of Karamu (*Coprosma*).

Tutunawai  
Tutunahua } what? where? – 1st. river, hd. of Kkawa

Para, what? sd. to be tuberous, edible, Waikare woods

Kohia, a creeper, what?

An orchid on pohutukawa overhangg. lake rotorua

Biddell in lett.:/39. Alexr. Gray knows

what Trees (sd. to be Manawa?) growg. at Mawe Lake

All Rubiaceous plants have alternate leaves (is not this  
a gross error??)

All *Coprosma* with stipules & opp. leaves.

*Nothoclaena distans*, resembles *Cheilanthes* – abt. to 8  
in in length – woolly underneath

Kumara – *Convolvulus chrysorrhizus* Lind

*Xylosma orbiculare*, *Monoecia Icosandria*, Linné p.  
1630.

Look for *Myosotis spathulata* } either *M. Forsteri* or  
sd. to be a N.Z. plant by Forster } *Anch. spath.*  
see Linné

*Michilia spectabilis*. 681 Linné, what? Hartighsea  
spect.