

Addenda et Corrigenda

(Figures after plants indicate flowering months)

- Vol. 1, No. 10, p. 5—*Capparis nummularia*.
Add mo. 10.
- No. 11, p. 4—*Elythroxyllum ellipticum*.
Add mo 5.
Add loc. Mt. Mulligan (Flecker).
- No. 12, p. 6—*Codiaeum variegatum*, For
var. *moluccana* read *moluccanum*.
Add mo. 10.
Add loc. Wright's Creek (Flecker).
- Vol. 2, p. 2—After *Paratrophis* add Blume
P. 8—Delete genus *Nephelium* and
substitute—
Guoia, Radlk.
semiglauc, F.v.M. 8.
Cairns (Francis); Pine Cr. (Flecker);
From Rockingham B. Southward
(F.v.M.)
acutifolia, Radlk.
L. Barrine (Kajewski).
lasioneura, Radlk. 9.
Butcher's Creek (Miss Walsh);
Boonjie (Kajewski).
montana (White). 10.
Mt. Bartle Frere (Kajewski)
- Alectryon*, Radlk.
connatus (F.v.M.), Radlk.
Rockingham B. (F.M.B.); Pt. Denison
(F.M.B.); Burdekin R. (Francis)
subdentatus (F.v.M.), Radlk.
Tringilburra Cr. (F.M.B.); Rocking-
ham B. (F.M.B.)
tomentosus (Benth.) Radlk. 10 to 4.
Rockingham B. (Dallachy);
Proserpine (Francis).
- Arytera*, Radlk.
divaricata, F.v.M.
L. Barrine (Kajewski); Rockingham
B. (F.M.B.); Proserpine (Francis).
distylis, F.v.M. Cordurov.
Pt. Denison southward (F.M.B.)
Lautereriana (F.v.M.), Radlk.
Gadgarra (Kajewski)
- Before (*Harpullia*) *rhyticarpa* add
(H.) Hillii, F.v.M.
Ayr (Francis).
- H. pendula*. Add loc. Mulgrave R.
(Francis).
- Dodonaea lanceolata*. Add mo. 4.
Add loc. Mt. Mulligan (Flecker).
- P. 10—*D. viscosa*. Add loc. Russell R.
(Flecker).
- Delete genera *Guoia*, *Cupaniopsis*, *Sar-
copteryx*, *Jagera*, *Synima*, *Arytera*,
and *Mischocarpus*.
- P. 12—*Euroschinus falcatus*. Add loc.
Stannary Hills (Francis).
Add var. *angustifolius*, Benth
Stannary Hills (Francis).
- For Family *PLUMBAGINEAE* read
PLUMBAGINACEAE.
For Family *PORTULACAEAE* (Juss.)
read *PORTULACACEAE*.
- Portulaca oleracea*. Add mos. 5, 8 to 1
Add loc. Cairns (Flecker).
Before *Calandrinia* add
P. filifolia, F.v.M.
Torrens Cr.
For Family *CARYOPHYLLEAE* (Juss.)
read *CARYOPHYLLACEAE*.
Before *Polycarpaea* add
Drymaris, Willd.
diandra, Blume 4, 7 to 10.
Cairns (Flecker).
For *Polycarpaea* read *Polyserpaca*.
P. spirostyles. Add mo. 2.
After locs. Gilbert R.; Northcote and
Herberton add (F.M.B.)
Add locs Mt. Mulligan (Flecker);
Kidston (F.M.B.).
- P. 14—*Amarantus mitchellii*. Add loc.
Hughenden.
Trichinium macrocephalum. Add mos.
2 and 10.
Add loc. Thornborough (Flecker)
- P. 19—*T. semilanatum*. Add mo. 10.
calostachyum. Add mo. 10.
Alternanthera denticulata. Add mo. 4.
Add loc. Mt. Mulligan (Flecker).
Before *Gomphrena* add
(A.) *nana*, R.Br. 9.
Cairns (Flecker).
Before *Atriplex* add
(C.) *ambrosioides*, L. Introduced.
7 to 9, 11 to 2.
Cairns (Flecker).
A. halimoides. Add mo. 10.
- P. 18—*Suaeda maritima*. Delete Flowers
April, May and November.
Delete loc. Cairns.
Add var. *australls*, Domin. 1, 2, 4, 5, 10
and 11.
Cairns (Flecker).
- Salsola kali*. Add mo. 10.
Add loc. Hughenden.
For (*Sesuvium*) *portulacastrum* read
portulacastrum.
S. portulacastrum. Add mos. 1, 5 and 12
Add locs. Michaelmas Cay (Flecker);
Cairns (Flecker).
- After (*Polygonum*) *lapathifolium* delete
(L.) and add *L. Pale Knotweed*. 8,
11 and 12.
Add loc. *Ka nerunga* (Flecker).
- P. 20—(F.) *iffaiana*. After Atherton
District add (Swain).
- Vol. 3, p. 3—*Crotolaria trifoliastrium*. For
Willd read Willd. 8.
Add loc. Barron Gorge (Flecker).
- P. 16—For *M. tanarius* read *Macaranga
tanarius*.
Before *M. tanarius* add No. 11, p. 7.
- P. 20—*Rhysofoechia Robertsonii*. Add
mo. 8.

Cairns Daily Times Print

**The North Queensland Naturalist**

The Journal and Magazine of the North Queensland Naturalists' Club

Vol. III. No. 7

CAIRNS, APRIL 1935

Serial No. 31

North Queensland Naturalists' ClubMeets at Girls' and Infants' School, Abbott Street, Cairns,
usually on second Monday in each month at 8 p.m.BUSINESS FOR NEXT MONTHLY MEETING—
Monday, 8th April, 1935

1. Minutes.
2. Correspondence and Reports.
3. Election of Members.
4. Nominations for Membership.
5. General Business.
6. Remarks by Exhibitors.

It is particularly desired that members having interesting specimens should exhibit them at the Club's meetings, make a few remarks on them and furnish written particulars for record purposes. Brief descriptions should accompany exhibits for the benefit of fellow-members.

7. Subject for the Evening—
"Trinity Inlet, an Ancient River Mouth," by Mr. Arthur J. Moran

Office Bearers for 1934-35

President: Dr. H. Flecker, M.B., F.R.C.S., etc.
Vice-Presidents: Capt. W. Fish, Miss M. E. Hooper
Hon. Librarian: Mr. H. Purcell
Hon. Treasurer: Mr. R. J. Gorton
Hon. Secretary: Mr. J. Wyer, "Lochinvar," 253 Sheridan St., Cairns
Hon. Assistant Secretary: Mr. Michael Sergeant
Committee: Messrs M. Auricchio, J. McAuliffe, J. G. Brooks,
T. P. Walsh

The Pollination of *Cymbidium iridifolium*, Cunn.

By KENNETH MACPHERSON and the REV. H. M. R. RUPP

One of us (K.M.), attracted by the prolific seed-capsules borne by this orchid at Proserpine, was induced to watch the methods employed by nature to ensure perfect fertilization.

On Sept. 28, 1934, and on several subsequent occasions, the reward of patience came in the form of several small flying insects, hovering about a large plant in flower. These were at once recognisable as a small species of Native Honey Bee (not yet identified). Obviously enticed by the sweet perfume which is characteristic of *C. iridifolium*, the bees alighted on the expanded outer end of the labellum. They had evidently visited other plants in the vicinity, for closely adhering to the minute hairs which cover their backs, were several grains of orchid pollen.

The labellum of *C. iridifolium* is loosely attached to the base of the column. So far as we are aware no "irritability" has hitherto been observed in this labellum. The other writer of the present article (H.M.R.R.) has failed to induce signs of irritability by artificial methods on a raceme from Proserpine flowering in his bush-house. But the observer at Proserpine, watching the bees advance towards the base of the labellum, noticed the latter, with several jerky movements, close up against the column, imprisoning the bee, and bringing its back into contact with the sticky stigmatic plate, upon which were thus deposited the pollen grains carried by the insect. The struggles of the bee to escape are considerable, owing to the fact that along the median line of the labellum of *C. iridifolium* there is exuded a shining, viscid secretion (Lindley named the species *C. madidum*, "wet" or "viscid"). In its struggles backward it bursts the anther-sac, and receives a new supply of pollen on its back. The whole process was carefully observed.

Incidentally, the fact was noted that the viscid exudation just alluded to is the real objective of the bee's visit. There does not appear to be any nectar in the flower. But as the bee moved down towards the base of the labellum, it was observed to be gnawing at the viscid exudation. The booty thus secured was then held between the front pair of legs, and subsequently transferred to the second pair, which then fastened it to the pollen carriers on the rear legs. There seems no doubt that this substance is used, as "Bee Glue" (Propolis), to close up small spaces and cracks in the nest. The supply is generally obtained from the young shoots and flower-buds of certain plants, but this particular bee has apparently "struck it rich" in the open *Cymbidium* flower.

Book Review

Catalogue of Hemiptera of America North of Mexico, by Edward P. van Duzee.—This catalogue of 902 pages published by the University of California Press at Berkeley in 1917 provides a very comprehensive reference book for students of the family Hemiptera. All genera and species are listed for every sub-family except the Aphididae Coccidae and Aleurodidae and authors of each species together with the publication references are given.

EXCURSION TO MICHAELMAS CAY.—The "Magneta" has been engaged for Sunday, 19th May next. As accommodation is limited, those desiring to attend please communicate with Mr. G. Bates as early as possible.

The Far Side of Torres Strait

By DR. G. H. VERNON, M.C., F.R.G.S. Aust.

Continued from page 23

Within the last few years, Torres' route has been the subject of a bitter controversy between the Australian Historical Society, and a now deceased historian in England who propounded revolutionary theories constructed on his belief in certain newly discovered documents written by de Prado. This de Prado, who was formerly considered a sort of superior passenger sailing with Torres, claimed in his book to be actual leader. Those who backed his assumption of command went further and hailed him as the actual discoverer of Australia, stating that he sailed far enough south to pass Cape York. Captain Bayldon, of the A.H.S., pointed out in a series of logical papers founded upon his actual experience of the Straits and the possibilities of navigation therein that de Prado could not have gone so far to the southward as that; his defence of Torres has led historians to restore him as leader of the expedition and replaced Cook as the original discoverer of Endeavour Strait.

To be continued

Census of North Queensland Plants (continued)

(Figures after plants indicate flowering months)

- | | |
|-------------------------------------|---|
| Clitoria, L. | insularis, F.M.B. |
| australis, Benth. | Yama I. (Macgregor); Turtle I., off |
| Cardwell (Michael), | Somerset (F.M.B.) |
| ternatea, L. 3, 5. | phlebocarpa, F.M.B. |
| Murray I. (Macgregor); Cairns | Newcastle B., C.Y. Pen. (Jardine). |
| (Flecker). | Mucuna, Adans. |
| Glycine, L. | gigantea, DC. 10. |
| tabarina, Benth. 11. | Cardwell (R.B.H.); Palm I. (Herbert) |
| Mossman (Flecker), | Edgecombe B. (Dallachy). |
| tomentosa, Benth. | Galatia, R.Br. |
| Endeavour R. (B. and Sol.) | tenuiflora, Willd. |
| Hardenbergia, Benth. | I. of G. of Carpentaria and adjoining |
| retusa, Benth. Kong-an. 7. | coast (R.Br.); Endeavour R. (B. and |
| C. York (Hill); Albany I. (F.M.B.); | Sol.) |
| Batavia R. (Roth); Endeavour R. | Muelleri, Benth. |
| (Banks and Sol.); Parramatta Swamp | Walsh R. (Barclay-Millar). |
| (Flecker); Cooktown (F.M.B.); Dunk | varians, F.M.B. |
| I. (M'Gillivray). | Morehead R. (Roth) |
| Kennedy, Vent. | Canavalia, DC. |
| rubicunda, Vent. Dusky Coral-Pea. | obtusifolia, DC. McKenzie Bean. 10. |
| Rockingham B. southward. | I. of G. of Carpentaria (R.Br.); Saibai |
| Texaltata, F.M.B. | I. (Macgregor); Endeavour R. (B. |
| Scrubs of Barron R. (Cowley); | and Sol.); Green I. (Priest); Palm I. |
| Atherton (J. F. Bail.) | (Herbert). |
| Erythrina, L. | Phaseolus, L. |
| vespertillo, Benth. Grey Corkwood. | truxillensis, H.B. et K. |
| G of Carpentaria (R.Br.); C. York | I. of G. of Carpentaria (R.Br.); Yama |
| (M'Gillivray); Batavia R. (Roth); | I. (Macgregor); Endeavour R. (B. and |
| Endeavour R. (Fraser). | Sol.); Barnard I. (M'Gillivray). |
| indica, Lam. Coral Tree. 8 to 11. | |
| Green I. (Flecker); Pt. Denison | |
| (Fitzalan). | |

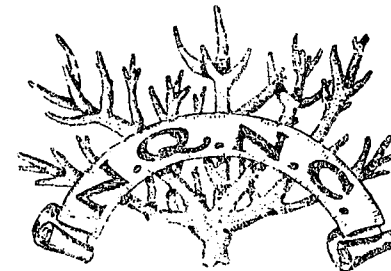
Addenda et Corrigenda

(Figures after plants indicate flowering months)

Vol. 1
 No. 9, p 6—*Daphnandra aromatica*. After locs. Barron R. and Johnstone R. add (F.M.B.)
 P. 8—Before *Limacia*, add *Legnephora*, *Miefs Moorei*, *Miers Atherton Tabel. area (White)*
 Before *Stephania bancroftii* add (*S. hernandias folia*, Walp. 3 Cairns (Flecker)
 Atherton Tabel. area (White)
 No. 10, p. 5—Add (F.M.B.) after following locs.:—
C. nummularia. Cloncurry.
C. ornans. Batavia R. and Pt. Denison
C. canescens. Lynd R. and Burdekin R.
C. lucida Hope Islets, C. Grafton, Burdekin R., Pt. Denison and Pt. Molle.
C. mitchelli. Cloncurry.
 After FAMILY CRUCIFERAE add Juss.
 Before (*Brassica*) *juncea* add (*B.*) *campestris*, L. Europe. 5. Cairns (Flecker).
Lepidium ruderales. Add mos. 7 to 11. Add loc. Atherton Tabel. area (White)
Ionidium suffruticosum. After loc. Mt. Mulligan add (Flecker)
 Add (F.M.B.) after following locs.:—
Cochlospermum gillivraei. Thursday I., other I. off Coast. Middle Palmer R. Nassau R., Atherton, Pt. Denison and Burdekin R.
C. gregorii. Gilbert R.
 Before *Scolopia* add *Flacourtia cataphracta*. 11. Mossman (Flecker).
 After (*Pittosporum melanosporum*) var. (?) *lateralis* add Benth.
 Add (F.M.B.) after following locs.:—
P. venulosum. Coastal Ranges as Rockingham B. etc.
P. wingii. Bellenden Ker and other high ranges.
P. rubiginosum. Ranges about Bellenden Ker.
 Before (*Bursaria*) *tenuifolia* add (*B.*) *incana*, Lindl. 2. Mt. Mulligan (Flecker)
 P. 7—*Zanthoxylon veneficum*. Add loc. Atherton Tabel. area (White).
 No. 11, p. 4—Before (*Oxalis*) *corniculata* add (*O.*) *corymbosa*, D.C. Brazil. 3, 5. Cairns (Flecker).
 (*O.*) *corniculata*. Add mos. 3, 10 and 12. Add loc. Atherton Tabel. (White).
 Before *Sida* add *Malvastrum*, Gray. *tricuspidatum*, Gray. Introduced. Atherton Tableland area (White).

S. rhombifolia. Add nos. 2, 3 and 5. After loc. Cairns Dist. add (F.M.B.)
 Add loc. Atherton Tabel. area (White)
S. acuta. Add loc. Atherton Tabel. area (White); Townsville (White).
S. cordifolia. For Flowers Dec. read Flannel Weed, 7 to 5. After Cairns add (White).
 Add locs. Mt. Mulligan (Flecker); Atherton Tabel. area (White); Townsville (White)
 After *Urena lobata* (L.) add Pink Burr. Add mos. 10 and 11.
 P. 5—*Hibiscus tiliaceus*. Add mo. 6. After locs. I. of Bay of Carpentaria, Cooktown, Dunk. I., and Lower Tully R. add (F.M.B.)
 After loc. Green Is. add (Wright).
 After loc. Cairns add (Flecker).
 Add loc. Innisfail (Flecker).
 P. 6—Add (F.M.B.) after the following locs.:—
Kleinhovia hospita. Pt. Douglas.
Melhanianca incana. Pt. Denison and Burdekin R.
 After loc. Mt. Mulligan add (Flecker).
 Add (F.M.B.) after locs. of following:—
Waltheria americana
Cammersonia leichhardtii.
C. echinata.
Berrya ammonilla, var. *rotundifolia*.
Grewia orientalis.
G. polygama. Delete Cleveland.
 After locs. Is. of G. of Carpentaria, Sweers Is., Cape York, Butcher's Hill, Cloncurry, Cleveland Bay, Pt. Denison and Pt. Molle add (F.M.B.)
 Add loc. Mossman (Flecker)
 Add (F.M.B.) after the following locs.:—
G. pleiostigma. Mulgrave R.
Triumfetta procumbens. All locs.
T. appendiculata. Sweers I.
T. pilosa. Mt. Elliott.
T. rhomboidea. All locs.
 Add mos. 10 and 11.
 Add loc. Atherton Tabel. area (White).
 After *T. nigricans*, F.M.B. add Black Burr.
 Add (F.M.B.) after following locs.:—
Corchorus acutangulus. C. York.
C. sidoides. I. of G. of Carpentaria.
 P. 7—*Euphorbia pillulifera*. Add mos. 1 to 12.
 Add locs. Mt. Mulligan (Flecker); Dimbulah (Flecker); Atherton Tabel. area (White).
 No. 12, p. 6—Before *Mallotus* add (*Acalypha*) *capillipes*, F.v.M. Cairns Intake (Flecker).

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Vol. III. No. 8

CAIRNS, MAY 1935

Serial No. 32

North Queensland Naturalists' Club

Meets at Girls' and Infants' School, Abbott Street, Cairns, usually on second Monday in each month at 8 p.m.

BUSINESS FOR NEXT MONTHLY MEETING—
 Monday, 13th May, 1935

1. Minutes.
2. Correspondence and Reports.
3. Election of Members.
 Mr. Frederick Newton, Sheridan Street, Cairns
 Mr. B. Derwent Vallance, City Council Chambers, Cairns.
4. Nominations for Membership.
5. General Business.
6. Remarks by Exhibitors.

It is particularly desired that members having interesting specimens should exhibit them at the Club's meetings, make a few remarks on them and furnish written particulars for record purposes. Brief descriptions should accompany exhibits for the benefit of fellow-members.

7. Subject for the Evening—
 Discussion on Names of Fish, with members of Cairns Amateur Fishermen's Association

Office Bearers for 1934-35

President: Dr. H. Flecker, M.B., F.R.C.S., etc.
 Vice-Presidents: Capt. W. Fish, Miss M. E. Hooper
 Hon. Librarian: Mr. H. Purcell
 Hon. Treasurer: Mr. R. J. Gorton
 Hon. Secretary: Mr. J. Wyer, "Lochinvar," 253 Sheridan St., Cairns
 Hon. Assistant Secretary: Mr. Michael Sergeant
 Committee: Messrs M. Auricchio, J. McAuliffe, J. G. Brooks,
 T. P. Walsh