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The

# North Queensland Naturalist

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No. 44

## 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 Meeting—Monday, 11th May, 1936.

Lecture by Mr. E. Barke, of Meringa Experimental Station.  
Subject: "Cane Breeding."

### Election of Members.

Mr. H. R. Thurston, Box, 89 Mareeba.

Mr. H. Thorogood, Kelsey Creek.

### Proposers.

R. L. Hunter

K. MacPherson

### Seconders.

M. Auricchio

R. L. Hunter

### Exhibits at the April Meeting.

Mr. H. Chargois—Photographs of Cuscus, *Phalanger maculatus*; Leaf-tailed Gecko, *Phyllurus cornutus*; caterpillar of *Hypolimnas misippus*; and Spiny Leaf Insect, *Extatosoma tiaratum*; also specimens of eggs of latter.

Mr. M. Mackesy—Crinoline fungus, *Dictyophora* sp.

Miss Strang—Flower heads of Backscratcher, *Tapeinochilus Queenslandiae*, one measuring 22 cm.

Mr. R. Hunter—Numerous moths from Cairns District.

Mrs. Sparvell, Mowbray—Two tussock moths (*Lymantridae*) covered with empty cocoons of Braconid wasps. The emerged wasps were also exhibited.

Mr. G. Bates—A troublesome burr from Green Island, *Tribulus cystoides*.

Dr. H. Flecker—Herbarium specimens listed in Census.

### April Meeting.

An interesting address was given by Mr. E. Williams, entitled "The Role of Yeast in Industry." The organisms were exhibited in culture and under the microscope. The lecturer dealt at length with various aspects of fermentation and the nature of enzyme action and their method of operation was discussed.

### BOOK REVIEW.

10. AUSTRALIAN BIRD MAPS, by Robt. Hall, C.M.Z.S., Past Pres. R.A.O.U., etc., 220 pp., 101 maps, 3 plates. Published by the author, Hobart, 1922. Dedicated to "Boy Scouts and Girl Guides with any profits that may occur." Although not a new book, much exceedingly useful and interesting information about the migration of birds is given. The maps are perhaps crudely drawn, but nevertheless illustrate the numerous wanderings, and to those who wish to study the numerous birds, particularly which alight on the Cairns foreshore in their journey north and south, this book can be particularly recommended.

## LIFE HISTORY OF HYPOLIMNAS MISIPPUS.

(By R. L. Hunter, Freshwater.)

Knowing there are still many life histories of Australian butterflies to be recorded it is naturally the aim of any collector to discover one, and, as the life history of *Hypolimnas misippus* had not been recorded in

Australia, coupled with the fact that this particular butterfly was common in my garden led me to try and discover its history.

On March 4th, 1936, I noticed quite a number of females in the garden,

V flying short distances and walking on the ground. Watching one carefully I noticed that she seemed to be depositing eggs. After a careful search I found six eggs, one being laid on a blade of grass, various common weeds, but *Portulaca oleracea*, the common purslane, being favoured.

The egg is greenish white in colour, spherical and strongly ribbed. Although various plants were close by, the young larva (which emerged in three days) chose *P. oleracea* and commenced to feed.

The young larva was a smoky black colour, spiny, with two hairy horns. The first instar occurred on March 11th, the larva then turning almost black with an orange coloured head, more spiny and the hairy horns more

pronounced. After two days the colour changed to a dark patterned brown, and on March 20th commenced to pupate, the pupa being fully formed on the 21st.

Most of the lifetime of the larva was spent on the ground, raising the head and forelegs to feed. I found numerous larvae at a later date, but mostly hiding away under boards, or anything in fact, that provided cover.

The pupa is a mottled brown and spiny, hung head downwards by the cremaster; it differs from *H. bolina nerina* inasmuch that it is smaller and neater. After a duration of seven days three females emerged and three males a day later.

Butterfly—the male: Upper side black, with two white spots on the

forewing, and one larger one on the hindwing, all having purplish iridescent margins. Under side reddish brown, the white spots being larger and without the purple borders.

Female: Upper side tawny orange, outer margins black with white dots,

and a white bar next the apex of the forewing. Under side very similar to the top but much paler, and the apex of the forewing tawny orange. The sexes are very unlike, for whilst the male resembles the male of *H. bolina nerina* the female is very similar to *Danaida chrysipus*.

### A NORTHERN FORM OF SARCOCHILUS HILLII, F.v.M.

By the Rev. H. M. R. Rupp, Woy Woy, N.S.W.

Although I think it wise for the present to place the orchid here described in *S. Hillii*, I should not argue the point with any botanist who considers it deserving of specific rank. The differences between it and the typical form of Mueller's species are certainly not unimportant; but the two plants are so much alike, and so obviously closely related, that it seems to me better to regard them as conspecific than to create a new species whose validity would probably be challenged.

The subject of this note is a small

#### *S. Hillii*, Type.

1. Leaves and racemes dark or dingy green, spotted.
2. Flowers white or pink, fragrant.
3. Sepals and petals orbicular-ovate.
4. Lateral lobes of the labellum short, with a row of red splashes inside.
5. Mid-lobe densely beset with white hairs about the margins.
6. Disk with four stout clubbed calli set transversely, the two inner ones longer than the two outer.
7. Column with two erect teeth at the top in front.

The last feature seems the most important morphologically, but is hardly sufficient to justify separation. With regard to the calli on the disk, the middle one of the three in the Mt. Dryander flower suggests a

epiphyte collected on Mt. Dryander, North Queensland, by Mr. Kenneth MacPherson in 1935. Specimens sent to me are now flowering in N.S.W. late in February, 1936. The general features of the plant and the structure of the flower are those of *S. Hillii*, the northern limit of which as recorded by Bentham and Bailey was Rockhampton. It extends southward to the South Coast area of N.S.W. The distinctions between the type form and the Mt. Dryander plant are as follow:—

#### Mt. Dryander Form.

Leaves and racemes light green, unspotted.

Flowers white, scentless.

Sepals and petals narrower.

Lateral lobes of labellum as long as the mid-lobe, strained or heavily splashed with red inside.

Mid-lobe with orange margins, less densely beset with white hairs.

Disk with three stout clubbed calli, the middle one taller and stouter than the two outer, and double-headed.

Column devoid of teeth.

union of the two inner ones in the type.

I suggest that Mr. MacPherson's plant be known as *S. Hillii* var. *tricallatus*.

### CENSUS OF NORTH QUEENSLAND PLANTS—(Continued)

(Figures after plants indicate flowering months)

#### Eucalyptus,

*Torelliana*, F. v. M. Cadagai. 5 to 2.

Pt. Douglas (Mocatta), Trinity

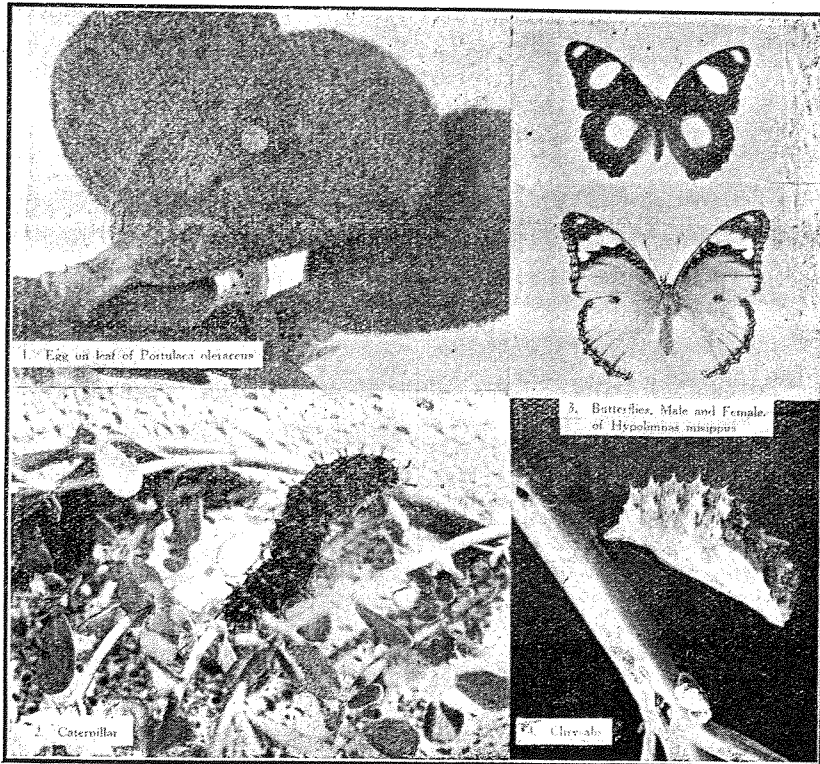
B. (Blakely), Atherton (Blakely),

Sea View (Blakely), Ingham (Mocatta).

*abergiana*, F.v.M. Rockingham Bay

Bloodwood. 2, 3.

Nr. Rockingham B. (Dall).



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*papuana*, F.v.M. Drooping White Gum, 12 to 2.  
 Normanton (Blakely), Alma-den (Blakely), Mt. Mulligan (Flecker), Gilbert R. (Blakely), Flinders R. (Blakely), Cloncurry R. (Blakely).  
*erythrophloia*, Blakely, Red Bloodwood, 1 to 3.  
 Cape R. (Blakely), Chillagoe (Blakely), Alma-den (Blakely), Walsh R. (Blakely), Cairns (Blakely), Townsville (Blakely), Ch. Towers (Blakely), Burdekin R. (Blakely).  
*trachyphloia*, F.v.M., White Bloodwood, 1 to 3.  
 Stannary Hills (Blakely).  
*pyrophora*, Benth. Pale-barked Bloodwood, 7, 8 and 10.  
 Cloncurry (Blakely).  
*grandis* (Hill) Maiden. Toolur. 6 to 8.  
 Atherton (Blakely).  
*Sherleyi*, Maiden. Shirley's Silver-leaved Box.  
 Stannary Hills (Blakely).  
*phaeotricha*, Blakely et McKie. Queensland Stringy Bark. 10, 11.  
 Yungaburra (Blakely).  
*Brownii*, Maiden and Cambage, Reid River Box, 6 to 8.  
 Forsayth (Blakely), Alma-den (Blakely).  
*Cambageana*, Maiden. Coowarra Box, 1, 12.  
 Charters Towers (Blakely).

*Spenceriana*, Maiden. Darwin Box, 9 to 11.  
 Cape R. (Blakely), Reid R. (Blakely).  
*tropica*, Cambage. Corella River Box.  
 Nr. Corella R. abt. 30 miles N. of Cloncurry (Blakely).  
*microneura*, Maiden et Blakely. Gilbert River Box. 2.  
 Gilbert R. (Blakely).  
*leucophylla*, Domin. White-leaved Box.  
 Nr. Cloncurry (Domin).  
*hormantonensis*, Maiden et Cambage. Box.  
 Normanton (Blakely).  
*Culleni*, Cambage. Cullen's Iron-bark, 8, 9.  
 Chillagoe (Blakely).  
*Whitei*, Maiden et Blakely. White's Ironbark. 1, 12.  
 30 miles E. of Hughenden (Blakely), Burdekin R. (Blakely).  
*pachycalyx*, Maiden et Blakely. Stunted Spotted Gum. 12.  
 Ranges nr. Cairns (Blakely).  
*Tristania*, R. Brown.  
*suaveolens*, Sm. Swamp Box. 1 to 12.  
 G. of Carp. (R. Br.), Mt. Mulligan (Flecker), C. York (M'Gillivray), Endeavour R. (B. and Sol.), Cooktown (Roth), Stoney Cr. (Flecker), Range Rd. (Kajewski), Rockingham B. (Dall.), Repulse B. (Cunn.).

ADDENDUM ET CORRIGENDUM.

Vol. 1, no. 9, p. 8. Before *Stephania* add  
*Leichhardtia*, F. v. M., 11.  
*clamboides*, F. v. M.  
 Edge Hill (Flecker).  
 No. 10, p. 5. Before *Brassica* add  
*Sisymbrium*, L.  
*orientale*. Tumbling Mustard 12.  
 Cairns (Flecker).  
 No. 11, p. 6. *Heritiera littoralis*.  
 Add. loc. Edge Hill (Flecker),  
 Bessie's Cr. (Flecker), and mos.  
 4, 11.  
 Vol. 11, p. 6. *Rhysotoechia Robertsonii*. Add loc. Waugh's Pocket Bates).  
 Vol. III., p. 3. *Crotalaria striata*. Add loc. Cardwell (Priest) and mo. 2.

Vol. IV, p. 7. *Aristolochia deltantha*.  
 Add loc. Edge Hill (Flecker) and mo. 11.  
 P. 15. *Terminalia Muelleri*. Add loc. Edge Hill (Flecker) and mo. 11.  
*Lumnitzera racemosa*. Add loc. Parramatta Swamp (Flecker) and mo. 11.  
 P. 16. Before (*Melaleuca lasiandra* add (*M. Leucadendron*).  
 var. *minor*, Sm. 10.  
 Strathdickie N. (MacPherson).  
 For (*Trema samboinensis* read *amboinensis*).  
 P. 27. *Eucalyptus pellita*. Add loc. Freshwater (Flecker) and Mo. 3.