

ART. XXXIV.—A Revision of the Species of the Formicidæ
(Ants) of New Zealand.

By Professor Dr. A. FOREL.

Communicated by A. HAMILTON.

[Read before the Wellington Philosophical Society, 1st June, 1904.]

Chigny près Morges,
Switzerland, 3rd April, 1904.

DEAR SIR,—I have received the list of the *Hymenoptera* of New Zealand by P. Cameron, published in your *Transactions*, vol. xxxv., pp. 290–299. This list contains such a large number of errors that I think it necessary to send you a revision of the New Zealand species of *Formicidæ*, as now known. Of the species named in the list *Aphænogaster antarcticus*, Smith = *Monomorium antarcticum*, White, Smith named it *Atta antarctica*, while Cameron made an *Aphænogaster* of this false *Atta*—the *Aphænogaster* being more erroneous than the *Atta*. In the following paper I have given the necessary synonymy.

Mr. Cameron has forgotten to include in his list many new species discovered since 1892, and has added species that do not exist. He gives no *Lasius* in New Zealand, and *Formica zealandia* = *Melophorus advena*, Smith. Emery suggested that my *Strumigenys antarctica* may be a synonym of *Orectognathus perplexus*, Smith, because he thinks Smith has miscounted the number of joints of the antennæ; but, as it is only a suspicion, it must wait for more material.

I have no doubt that the North Island will furnish further new species after careful search, especially in vegetable mould and the hollows of trees.—Truly yours,

Prof. Dr. FOREL.

REVISION OF NEW ZEALAND SPECIES OF FORMICIDÆ.

1. Subfamily PONERINÆ, Lep., 1836.

PONERA, Latr., 1804.

- (1.) P. (MESOPONERA) CASTANEA, Mayr., Reise "Novara," Zool. ii., 1, Formicidæ, 1865.

P. castanea, Smith, Trans. Ent. Soc. Lond., 1876, p. 489.

P. castaneicolor, Dalla Torre Cat., 1893, p. 38.

- (2.) P. ANTIPODA, Forel, Ann. Soc. Ent. Belg., 1895.

ECTATOMMA, Smith, Cat., 1858.

- (3.) E. (ACANTHOPONERA) BROUNII, Forel, Mitt. Schw. Ent. Ges., 1892, p. 330.

- DISCOTHYREA, Roger, Berlin, Ent. Ges., 1863.
- (4.) D. ANTARCTICA, Emery, Trans. N.Z. Inst., 1895, p. 635.
- AMBLYOPONE, Erichson, Arch. f. Natg., 1841.
- (5.) A. CEPHALOTES, Smith, Trans. Ent. Soc. London, 1876, p. 490.
- (6.) A. SAUNDERSI, Forel, Mitt. Schw. Ent. Ges., 1892, p. 336.
2. Subfamily MYRMICINÆ, Lep., 1836 (p. 169).
- ORECTOGNATHUS, Smith, 1854.
- (7.) O. ANTENNATUS, Smith, Trans. Ent. Soc. London, 1854,
p. 228.
- (8.) O. PERPLEXUS, Smith, Trans. Ent. Soc. London, 1876, p. 491.
- STRUMIGENYS, Smith, 1860 (p. 72).
- (9.) S. ANTARCTICA, Forel, Mitt. Schw. Ent. Ges., 1892, p. 338.
- HUBERIA, Forel, Ann. Soc. Belg., 1890.
- (10.) H. STRIATA, Smith.
Tetramorium striatum, Smith, Trans. Ent. Soc. Lond.,
1876, p. 481.
Huberia striata, Forel, Ann. Soc. Ent. Belg., 1890.
- (11.) H. BRAUMI, Forel, Ann. Soc. Ent. Belg., Jan., 1895.
- (12.) H. STRIATA, var. RUFESCENS, Forel, Revue Suisse de Zool.,
1902, p. 447.
- MONOMORIUM, Mayr., 1855.
- (13.) M. ANTARCTICUM, White.
Atta antarctica, White, Zool. "Erebus" and "Terror,"
part ii.
Atta antarctica, Smith, Cat., 1858, p. 167.
Monomorium fulvum, Mayr., Reise "Novara," Zool.,
ii., 1865, p. 93.
Monomorium fulvum, Mayr., Verh. Zool. Bot. Ges.
Wien, 1886, p. 360.
- (14.) M. NITIDUM, Smith.
Tetramorium nitidum, Smith, Trans. Ent. Soc. Lond.,
1876, p. 480.
Monomorium nitidum, Mayr., Verh. Zool. Bot. Ges.
Wien, 1886, p. 363.
- (15.) M. SUTERI, Forel, Mitt. Schw. Ent. Ges., 1892, p. 340.
- (16.) M. SMITHII, Forel, Mitt. Schw. Ent. Ges., 1892, p. 342.
- (17.) M. INTEGRUM, Forel, Ann. Soc. Ent. Belg., 1894, p. 228.
- (18.) M. ANTIPODUM, Forel, Ann. Soc. Ent. Belg., 1901, p. 377.

3. Subfamily CAMPONOTINÆ, Forel, 1878.

MELOPHORUS, Lubbock, Journ. Linn. Soc. Zool., 1883, p. 51.

PROLASIUS, Forel, Mitt. Schw. Linn. Ent. Ges., 1892.

(19.) M. ADVENA, Smith.

Formica advena, Smith, Trans. Ent. Soc. Lond., 1862,
p. 53.

Formica zelandica (?), Smith, Trans. Ent. Soc. Lond.,
1878, p. 6 (♀).

Prenolepis advena, Mayr., Verh. Zool. Bot. Ges. Wien,
1886.

Prolasius advena, Forel, Mitt. Schw. Ent. Ges., 1892.

Lasius advena, Dalla Torre Cat., 1893.

Melophorus (Lasiophanes) advena, Emery, Act. Soc.
Scien. Chili, 1895, p. 16.

PRENOLEPIS, Mayr., 1861.

(20.) PR. LONGICORNIS, Latr.* Hist. Nat. Journ., 1802.

Formica longicornis, Latr.

Prenolepis longicornis, Roger, Verzeichn J. Formic.,
1863.

SUMMA.—Twenty forms (nineteen species and one variety).

ART. XXXV.—On some New Species of Macro-lepidoptera in
New Zealand.

By G. V. HUDSON, F.E.S.

[Read before the Wellington Philosophical Society, 2nd November, 1904.]
Plate XXII.

CARADRININA.

Orthosia pallida, n. sp.

Two specimens of this insect were taken by Mr. H. W. Simmonds at Napier in April, 1903.

The expansion of the wings is nearly $1\frac{1}{2}$ in. *The fore wings are pale-cream colour*; there is a very obscure wavy grey transverse line near the base, another at about $\frac{1}{3}$, and another at about $\frac{2}{3}$, the space between the second and third lines being slightly shaded with brown. *The hind wings are almost white, slightly shaded with grey near the termen.* The head and thorax are cream-colour, and the abdomen whitish-ochreous.

This is an obscure species, and may perhaps ultimately prove to be a bleached or pale variety of some other species already described. Mr. Simmonds, however, assures me that he has no reason to doubt his specimens represent a distinct species.

* A cosmopolitan species (transported by ship).