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**Wissenschaftliche Ergebnisse der schwedischen
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7.

Formicidæ.

by

WILLIAM MORTON WHEELER.

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The following series of ants collected by Dr. A. ROMAN in the State of Amazonas, Brazil was kindly sent me for identification by Prof. YNGVE SJÖSTEDT. So much work has been done on the Formicidæ of the region in which Dr. ROMAN collected that it is, perhaps, not surprising to find that none of the species is new to science. There are, however, several interesting new varieties, descriptions of which are included in the list.

Family Formicidæ.

Subfamily Dorylinæ.

1. *Eciton hamatum* FABR. 4 ♀ — Santa Amelia, 2, IX, 1914, and Cururuzinho, Rio Autaz, 30, IX, 1914.
2. *Eciton burchelli* WESTW. 4 ♀ — Cururuzinho, Rio Autaz, 10, X, 1914. Brazilian name »içá».

3. *Eciton (Labidus) prædator* SMITH ♀ — Rio Purus.
4. *Eciton (Labidus) prædator* SMITH subsp. *emilia* MANN 2 ♀ — During voyage Rio Japura — Manaos, April 1915.
5. *Eciton (Labidus) coecum* LATR. 2 ♀ — Rio Autaz and Rio Purus.

Subfamily Ponerinæ.

6. *Playthyrea incerta* EMERY ♀ — Rio Autaz.
7. *Paraponera clavata* FABR. ♀♀♂ — Cururuzinho, Capiranga (22, X, 1914) and Apipica, Rio Autaz; Manaos; Rio Purus 28, I, 1915.
8. *Ectatomma quadridens* FABR. ♀♀ — Rio Autaz and Manaos.
9. *Ectatomma tuberculatum* OLIV. ♀♀ — Rio Purus; Santa Amelia at Apipica (5, IX, 1914), Rio Autaz; Bosque Municipal, Manaos, 1, VIII, 1914.
10. *Ectatomma (Gnamptogenys) concinnum* SMITH ♀ — Rio Autaz.
11. *Ectatomma (Gnamptogenys) concinnum* var. *romani* var. nov.
Worker. Differing from the typical form of the species in having the gaster entirely black and in the striæ on the first gastric segment arcuate only in front and in the middle radiating backward fan-wise from a point near the anterior border.
A single specimen from Hyutánahã, Rio Purus, Jan. 1915.
12. *Pachycondyla crassinoda* LATR. ♀♂ — Rio Autaz and Lago de Poraquecuare, Manaos 13, V, 1915.
13. *Neoponera obscuricornis* EMERY var. *latreillei* FOREL ♀ — Lago de Poraquecuare, Manaos, 14, V, 1915.
14. *Neoponera villosa* FABR. subsp. *inversa* SMITH ♀ — Manaos, 14, VII, 1914; Rio Japura and Rio Autaz.
15. *Neoponera theresia* FOREL ♀ — Cururuzinho, Rio Autaz, 29, X, 1914.
16. *Neoponera commutata* ROGER ♀♀ — Rio Autaz, Cururuzinho, Oct., Nov. 1914.
»Caught marching in single file and carrying large, thick-headed, yellowish brown termites.»
17. *Neoponera unidentata* MAYR ♀ — Rio Autaz.
18. *Euponera (Trachymesopus) stigma* FABR. ♀ — Rio Autaz.

19. *Anochetus bispinosus* SMITH ♀ — Rio Autaz.
20. *Anochetus (Stenomymex) emarginatus* FABR. subsp. *rugosus* EMERY ♀ — Rio Autaz; Lago de Poraquecuare, Manaos, 14, V, 1915.
21. *Odontomachus hamatoda* L. ♀ — Rio Autaz and Manaos.
22. *Odontomachus affinis* GUÉRIN subsp. *panamensis* FOREL ♀ Rio Tarumã, Manaos, 15, XII, 1914.

A single specimen agreeing very closely with a couple of cotypes of this subspecies in my collection. The subsp. *mayi* Mann from Brazil is decidedly larger and paler in color.

Subfamily Pseudomyrmicæ.

23. *Pseudomyrma gracilis* FABR. ♀ — Rio Autaz and Manaos.
24. *Pseudomyrma mutilloides* EMERY ♀ — Manaos.
25. *Pseudomyrma agilis* EMERY ♀ — »Chicago«, Rio Japura 15, IV, 1915.
26. *Pseudomyrma nigriceps* SMITH ♀ — Santa Amelia, Rio Autaz 27, VIII, 1914.
27. *Pseudomyrma mutica* MAYR. ♀ — Hyutanahã, Rio Purus, 11, II, 1915.
28. *Pseudomyrma elegans* SMITH ♀ — Rio Autaz.
29. *Pseudomyrma caroli* FOREL (?) ♀ — Amazonas.
30. *Pseudomyrma excavata* MAYR ♀ — Manaos.

Subfamily Myrmicicæ.

31. *Monomorium pharaonis* L. ♀ — Rio Purus.
32. *Megalomyrmex bituberculatus* FOREL ♀ — Bosque Municipal, Manaos 7, VIII, 1914.
33. *Crematogaster brasiliensis* MAYR ♀♀ — Bosque Municipal, Manaos, 7, VIII, 1914.
34. *Crematogaster longispina* EMERY var. *tenuicula* FOREL ♀ — Cururuzinho, Rio Autaz 2, XI, 1914.
35. *Crematogaster longispina* EMERY subsp. *egregior* FOREL ♀ — Manaos.
36. *Crematogaster limata* SMITH subsp. *parabiotica* FOREL ♀♀ — Bosque Municipal, Manaos 16, VII, 1914 and 27, VII, 1914.

37. *Atta cephalotes* L. ♀ — Hyutanahã, Rio Purus, 3, II, 1915.
38. *Atta sexdens* L. 2 ♀ — Cachoeirinha, Manaos.
39. *Atta sexdens* L. subsp. *laevigata* SMITH 2 ♀♀ — Manaos 13, VII, 1914, and 27, XI, 1914.
40. *Atta (Acromyrmex) coronata* FABR. ♀ — Rio Japura.
41. *Daceton armigerum* PERTY ♀ — Rio Autaz and Bosque Municipal, Manaos 18, VII, 1914.
42. *Cryptocerus umbraculatus* FABR. ♀ — Cururuzinho, Rio Autaz, Oct. 1914. »Taken in a cultivation in low lands in copula with a small male, since lost in preparation.»
43. *Cryptocerus pusillus* KLUG. ♀ — Manaos 15, VII, 1914; Rio Autaz.
44. *Cryptocerus (Zacryptocerus) clypeatus* FABR. ♀ — Manaos 28, VII, 1914.
45. *Cryptocerus (Cephalotes) atratus* L. — ♀♀ — Rio Autaz; Rio Purus; Manaos 12, VII, 1914 and 20, VII, 1914.
46. *Cryptocerus (Cephalotes) oculatus* SPINOLA ♀ — Cururuzinho, Rio Autaz 9, XI, 1914.

Subfamily Dolichoderinæ.

47. *Dolichoderus attelaboides* FABR. ♀ — Apipica, Rio Autaz 6, IX, 1914.
48. *Dolichoderus rugosus* SMITH ♀ — Rio Purus.
49. *Dolichoderus (Monacis) bispinosus* OLIV ♀ — Manaos.
50. *Dolichoderus (Hypoclinea) bidens* L. ♀ — Manaos 4, VIII, 1914.
51. *Azteca trigona* EMERY subsp. *mathildæ* FOREL var. ♀ — Rio Japura. A pale form near var. *spuria* FOREL.
52. *Dorymyrmex pyramicus* ROGER subsp. *brunneus* FOREL ♀ — Manaos.

Subfamily Formicinæ.

53. *Brachymyrmex patagonicus* MAYR ♀♀ — Santa Amelia, Rio Autaz, 21, VIII, 1914.
54. *Prenolepis (Nylanderia) fulva* MAYR var. ♀ — Rio Autaz. Two specimens of a small form near var. *fumata* FOREL.
55. *Gigantiops destructor* FABR. ♀ — Santa Amelia, Rio Autaz 14, IX, 1914.

56. *Camponotus (Myrmothrix) abdominalis* FABR. 2 ♀ — Cururuzinho, Rio Autaz, 10, X, 1914; Manaos.
57. *Camponotus (Myrmothrix) abdominalis* subsp. *stercorarius* FOREL 2 — Rio Autaz.
58. *Camponotus (Myrmothrix) abdominalis* subsp. *romani* subsp. nov. 2 ♀.
- Resembling the typical form of the species, but decidedly smaller, the largest worker measuring only 8,5 mm., the small workers 5—6 mm. The head of the former is often brown behind but sometimes dark brown or black throughout. The remainder of the body is uniformly dull yellowish brown, the legs paler, the gaster non-fasciate. The upper surface of the head is more shining and much more finely shagreened than in the typical *abdominalis*.
- Numerous specimens from »Chicago», Rio Japura 7, IV, 1915 (type locality), Rio Autaz and Manaos. Perhaps this form should be attached as a variety to the subsp. *ustulatus* FOREL.
59. *Camponotus (Myrmothrix) rufipes* FABR. subsp. *renggeri* EMERY 2 ♀ — Santa Amelia, Rio Autaz, 3, IX, 1914 and Lago de Poraquecuare, Manaos 11, V, 1915.
60. *Camponotus (Myrmothrix) femoratus* FABR. ♀ minor and ♂. — Bosque Municipal, Manaos.
61. *Camponotus (Myrmothrix) leydigi* FOREL. ♀ minor. Bosque Municipal, Manaos 29, VII, 1914.
62. *Camponotus (Myrmothrix) socius* ROGER ♀ minor. — Manaos.
63. *Camponotus (Myrmepomis) sericeiventris* GUÉRIN ♀ minor. Rio Japura.
64. *Camponotus (Myrmosphincta) sexguttatus* FABR. var. *fusciceps* EMERY ♀ minor. — Upper Amazonas, April 1915.
65. *Camponotus (Myrmamblys) novogranadensis* MAYR 2 ♀ ♀ ♂. — Cururuzinho, Rio Autaz, 3, XI, 1914.
66. *Camponotus (Myrmobrachys) senex* SMITH ♀ — Rio Autaz.
67. *Camponotus (Myrmorhachis) latangulus* ROGER. ♀ — Manaos.
68. *Camponotus (Myrmeurinota) heathi* MANN var. *gilvigaster* var. nov.

Worker major and minor differing from the typical form in having the black on the upper surface of the gaster replaced by brownish yellow of a slightly paler tint than that of

the thorax; except in the worker major where there are traces of blackish just in front of the white marginal bands of the segments. The vertex of the large worker, which is not quite a maxima like the specimens described by MANN and represented in my collection by cotypes, is also blackish.

Campos Salles, Manaus, 25, III, 1915, in termite nest.

69. *Dendromyrmex fabricii* ROGÉE var. *pictus* var. nov.

Worker. Differing from the typical form in color. Body brown, cheeks white; mandibles, clypeus and space between frontal carinæ and tip of last funicular joint brownish yellow. Upper surface of head and pronotum dark brown or blackish; anterior border of the latter yellow; fore coxæ and in some specimens the pleuræ darker brown than the remainder of the thorax. Hairs and pubescence on the body and appendages silvery white.

Six specimens from Lago de Poraquecuare, Manaus, 14, V, 1915. In a small nest on underside of a palm leaf.

70. *Dendromyrmex madeirensis* MANN var. *romani* var. nov.

Worker. Differing from the holotype of the species in my collection in color, the body being paler throughout, of a rich castaneous brown, with the mandibles, clypeus, cheeks and front red and only the top of the head, disc of pronotum and fore coxæ darker. Trochanters yellowish. Erect hairs on the head, thorax and gaster more abundant.

A single specimen from Manaus, March 1915.

71. *Dendromyrmex apicalis* MANN var. *opaciceps* var. nov.

Female. Length 10,4 mm. Compared with the holotype worker of the species in my collection the head is opaque and densely punctate, whereas the typical form has the head somewhat shining and finely and transversely striolate. The thorax, however, has the sculpture of the worker.

A single specimen from Manaus, July 1914.



Tryckt den 31 januari 1923.