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FAUNA
BOREALI-AMERICANA
OR THE
ZOOLOGY
OF THE
NORTHERN PARTS
OF
BRITISH AMERICA

PART FOUR

INSECTS

xxxix + 325 pp

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Part 4. See ANTBIB Misc. notes, p. 88.



ARNO PRESS
A New York Times Company
New York • 1978

QL485
R43
1958

FAUNA
BOREALI-AMERICANA;
OR THE
ZOOLOGY
OF THE
NORTHERN PARTS
OF
BRITISH AMERICA:

CONTAINING

DESCRIPTIONS OF THE OBJECTS OF NATURAL HISTORY COLLECTED ON THE LATE NORTHERN LAND
EXPEDITIONS, UNDER COMMAND OF CAPTAIN SIR JOHN FRANKLIN, R.N.

BY

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ILLUSTRATED BY SEVERAL COLOURED ENGRAVINGS.

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NORWICH:

PRINTED AND PUBLISHED BY JOSIAH FLETCHER;

AND SOLD IN LONDON BY

LONGMAN, ORME, BROWN, GREEN, & LONGMANS.

MDCCCXXXVII.

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Family BRACONIDÆ. *Braconidans.*

CLIV. Genus BRACON. Fab.

(361) 1. * BRACON CROCATOR. *Saffron-coloured Bracon.**B. (crocator) ater, nitidus; abdomine croceo; alis infuscatis; ovipositore corpore vix brevior.*

Saffron-coloured Bracon, very black, glossy; abdomen saffron-coloured; wings embrowned; ovipositor scarcely shorter than the body.

Length of the body without the ovipositor 3 lines.

A single specimen taken in Lat. 65°.

DESCRIPTION.

Body very black, glossy. Head subglobose, with the segment of a circle taken out behind; eyes between oval and round; antennæ as long as the trunk; trunk oblong, widest between the wings; scutellum rather large, rounded at the apex; metathorax obsoletely transversely wrinkled, sloping towards the abdomen; posterior legs rather robust; wings embrowned, middle areolets four, viz. 3 and 1, all quadrangular; stigma very large; abdomen lanceolate-ovate, as long as the trunk, saffron coloured, paler towards the apex; the three first segments are emarginate, and marked with two longitudinal faint furrows, the first pair being curvilinear: ovipositor longer than the body, borer red.

IV. ACULEATA. Lat

i. HETEROGYNA. Lat.

a. PHILOPONA. Kirb.

Family FORMICIDÆ. *Formicidans.*I consider the *Heterogyna* of Latreille as consisting of two races.

1. The *Philopona* containing all those genera, that constitute Linné's genus *Formica*, distinguished by their admirable industry, their wonderful economy, and the nests they construct.

2. The *Misopona* consisting of Linné's genus *Mutilla*, affording no such examples.

CLV. Genus FORMICA. Linn.

(362) 1. * FORMICA SEMIPUNCTATA. *Semipunctured Formica.*

F. (semipunctata) nigra, glabra; abdomine pubescente, punctato; segmentis apice membranaceis rufescentibus, intermediis basi lævibus.

Semipunctured Formica, black, naked; abdomen downy, punctured; segments membranous at the apex and reddish; the intermediate ones impunctured at the base.

Length of the body $7\frac{3}{4}$ lines.

Several taken in the Journey from New York to Cumberland-house.

DESCRIPTION.

Body black, glossy. Head something wider than the trunk, subtriangular: antennæ piceous with the scape black; wings cast in all the specimens;⁹ scale vertical between the trunk and abdomen, sloping to a thin edge upwards, where it is very slightly emarginate: abdomen oblong, subcylindrical, minutely punctured with the punctures piliferous; hairs decumbent with those of the margin of the segments and the anus, longer; margin of both abdominal and ventral segments membranous, membrane reddish; base of the three intermediate segments not punctured.

This species a good deal resembles the *Formica herculeana* of Linné (*F. ligniperda* Latr.) but it is proportionably more narrow, and entirely black save the legs and upper portion of the antennæ. I at first took it for a variety of *F. pubescens* of Latreille,¹ but in his description of that species, he makes no mention of the punctures of the abdomen, nor of the rufescent membranous margin of the abdominal segments, circumstances also which distinguish it from *F. pennsylvanica* of De Geer, and which, from the figure of that author, is evidently a much smaller insect.²

(363) 2. FORMICA FUSCA. (Linné.) *Brown Formica.*

Formica fusca. Linn. *Syst. Nat.* ii, 963, 4.; *Fn. Suec.* 1722. Fab. *Ent. Syst.* ii, 352, 11; *Syst. Piez.* 399, 13. De Geer *Ins.* ii, 1050, 1082, 3, t. xlii, f. 12. Lat. *Fourmis.* 159, 35, t. vi, f. 32; *N. Dict. D'H. Nat.* xii. Article *Fourmis. Crust. Arachn. et Ins.* ii, 312. Geoff. *Ins.* ii, 428, 5. De Geer *Ins.* ii, 1050, 1082, 3, t. xlii, f. 12. Müll. *Fn. Frid.* 657; *Linn. Nat.* v, 913. Oliv. *Encycl.* vi, 433. Schrank. *Enum.* 833. Vill. *Ent.* iii, 334, 3. Berk. *Syn.* i, 159. Ced. *Fn. Ingr.* 557. Walck. *Fn. Paris.* ii, 162, 7. Stew. *Elem.* ii, 248. Jur. *Hymenopt.* 272. Kirb. and Sp. *Introd. to Ent.* ii, 62. Lam. *An. sans Vertèbr.* iv, 9, 5. Steph. *Cat.* i, 357, 4846, 8.

Formica media nigro colore splendens Rai. *Hist. Ins.* 69.

The small Black Ant. Gould. *Ants.* 2, 3.

Formica flavipes. Fourc. *Ent. Par.* ii, 52.

—— libera. Scop. *Carn.* 835?

Formica noir cendrée. Hub. *Fourm.* 159, 35, t. vi, f. 32, A.

Length of the body $1\frac{1}{4}$ line.

One specimen taken in Lat. 65°.

⁹ *Introd. to Ent.* i, 370.

¹ *Hist. Nat. de Fourmis.* 96, t. i, f. 2, A, B.

² De Geer, *Ins.* iii, 603, 4, t. xxxi, f. 9, 10.

DESCRIPTION.

♀

Body black, but not intensely, glossy, subcinereous from down. Head triangular, large, much wider than the trunk; antennæ with the scape, the three following joints, and the terminal one, rufous, the other joints are darker: trunk oblong, compressed, anteriorly elevated and wider; the prothorax with the scutellum forming a rhomboid; scutellum large, trapezoidal, subrufous; scale subtriangular, subemarginate; legs rufous; thighs embrowned; abdomen subglobose, more hairy than the rest of the body, especially towards the anus.

ii. LESTICA.
a. DIPLOPTERYGA.³

Family VESPIDÆ. *Vespidans.*

CLVI. Genus VESPA. Linn.

(364)

1. VESPA VULGARIS. *Common Vespa.*

Vespa vulgaris. Linn. *Syst. Nat.* ii, 914, 4; *Fn. Suec.* 1671. *Fab. Ent. Syst.* ii, 256, 10; *Syst. Piez.* 255, 9. *Rai. Hist. Ins.* 250. *Scop. Carn.* 825. *Geoff. Ins.* ii, 360, 2. *Müll. Linn. Nat.* v, 880. *Frisch. Ins.* 9, t. xii, f. 2. *Schæff. Elem.* t. cxxx, *Icon.* t. xxxv, f. 4. *De Geer Ins.* ii, 766, 2, t. xxvi, f. 5—7. *H—s. Expos.* 128, t. xxxvii, f. 5. *Amo. Ins. venim* 251, t. ii, f. 13. *Schrank. Enum.* 787. *Vill. Ent.* iii, 263, 2. *Christ. Hymenopt.* 236, t. xxii, f. 2. *Don. Brit. Ins.* vii, t. ccxxvi. *Berk. Syn.* i, 158. *Ced. Fn. Ingr.* 521. *Walck. Fn. Paris*, ii, 91, 4. *Stew. Elem.* ii, 238. *Bingl. An. Bi.* iii, 341. *Panz. Fn. Germ.* xlix, t. 19. *Shaw. Gen. Zool.* vi, 235, t. xcv. *Jur. Hymenopt.* 168. *Lat. N. D. D'H. N.* xiv, 8; *Crust. Arachn. et Ins.* ii, 340. *Lam. An. sans Vertèbr.* iv, 88, 2. *Sam. Compend.* 280, 2. *Kirb. and Sp. Introd. to Ent.* ii, 106. *Steph. Cat.* i, 374, 5029, 2. *Ramd. Verdaung Ins.* 132, 1, t. xii.

Vespa. *Mouff. Ins.* 45.——major. *Schwenck. Theriotr.* 561.——flava major. *Merr. Pinax.* 196.

Aristot. Hist. Anim. i, ix, c, 41. *Plin. Hist. Nat.* i, xi, c, 21. *Swamm. Bibl. Nat.* t. xxvi, f. 8. *Reaum. Ins.* vi, t. xiv, f. 1—7.

Length of the body $6\frac{1}{2}$ lines.A single specimen taken in Lat. 65° .

³ Latreille names this section *Diploptera*, but the termination *ptera* being consecrated to the *Orders* of insects, I have changed the term for another of the same meaning.