

NOTES ON DIABROTICA AND DESCRIPTIONS OF NEW SPECIES.

BY FRED. C. BOWDITCH, BROOKLINE, MASS.

During the last two summers I have made the following notes on Mr. Baly's paper. (Baly's Sec. 1 Trans. Ent. Soc., 1890.)

Among the species labelled *Lacordairei* Kirsch, in the 1st Jacoby collection I separate three examples as the true *fraterna* Baly, described from Guatemala; the form is long, narrow and parallel, and in the ♂ the fourth joint of the antennæ is as long as the first three joints; some of the forms classed by Jacoby as *Lacordairei*, especially those collected by Champion, have a black anal segment, which would seem to throw them out of this species. Mr. Baly, p. 7, speaks of the entirely black legs of *Lacordairei*; the Central American forms in the Jacoby collection have base of femora pallid.

Sanguinicollis Jac., Cist. Ent., II, p. 524, the type of which is in my collection, I place near *rugulipennis* Baly.

On page 25 Mr. Baly, speaking of *atomaria* Jac, says "the antennæ nearly equal to the body in length." Mr. Jacoby, in his description, P. Z. S., 1889, p. 284, says "the antennæ about half the length of the body." My example from the Jacoby collection has the antennæ missing, another specimen from Venez (Caracas?) seems to be a ♀, the antennæ are half as long as the body.

D. pauperata Baly, p. 27. The typical form has two discoidal black spots, the first about the middle and the other about 1.5 mm. behind. Specimens occur where the two spots are joined, forming a short discoidal stripe, this form also having the humeral vitta whole, thus producing a form resembling *atrilineata* Baly and its allies; other specimens have the discoidal spots entirely absent; in both these last forms the sutural spot is only a piceous line; all the 16 examples in my collection come from Bahia, Brazil, which is the typical locality for the species.

On page 38 *D. fulvofasciata* Jac. is given by Baly as a synonym of *tumidiconnis* Er, the description of the former given by Jac., P. Z. S., 1889, p. 281, speaking of the ♂ antennæ, "the second and third joints very short and equal, the fifth to the ninth joints greatly dilated and thickened," and the habitat Caracas. Baly, on pages 38-39, speaking of *tumidiconnis* Er., says of the ♂ antennæ, "the 2nd joint very short, the 3rd nearly one-half longer, the 4th longer than the preceding two united,