

TWO NEW SPECIES OF THE GENUS *UMMA* (ODONATA)

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Umma electa, sp. n.

♂. Abdomen, 46 mm. Hind-wing, 34 mm.

Head: Underside metallic blue-green. Labium and underside of labrum shining black, tips of mandibles brown. Upperside of labrum, clypeus, frons and whole epicranium brilliant royal-blue. Two livid spots on either side of the labrum, and the enlarged pedicels of the antennae also of a livid colour, the other joints black. Eyes dark brown. *Prothorax*: Metallic emerald-green with some royal-blue. *Synthorax*: The whole dorsal surface brilliant royal-blue. The rest of the thorax metallic emerald-green, with the following pale yellow: the 2nd lateral suture for entire length; the outside edge of the metepimeron; some touches at the wing and leg-bases; the urosternite and margin of the poststernum. *Abdomen*: 1st segment metallic emerald-green. 2nd-5th segments brilliant royal-blue on dorsal surface, turning to metallic emerald-green laterally. 6th-9th segments less blue and more green. 10th segment and anal appendages metallic emerald-green. Underside of abdomen bronze-green. *Legs*: Metallic emerald-green and royal-blue, the blue accentuated at the joints. Tarsus black, claws dark brown. *Wings*: Hyaline, with a purple-blue sheen. A pale yellow tinge between costa and radius, also suffuses the median space in both fore- and hind-wings. Costa and subcosta in all wings metallic green to nodus; radius, cubitus and secondary analis royal-blue. All other veins dull lilac. *Pt.* a bright metallic lilac, nearly 2 mm. long in the fore-wings along the lower edge covering 3-4 cells, and 2½ mm. long in the hind-wings covering 4-4½ cells. *Genital appendages*: The superior anal appendages conform in shape to those of the other species of the genus, excepting *U. mesostigma*. The inferior anal appendages, on the other hand, resemble the square-ended shape of those of *U. mesostigma*. It is in the penis, figured on p. 144, figs. 7, 14, that the greatest distinction lies.

♀. Minus the 5th-10th segments of the abdomen, otherwise exactly identical with the male, except for the *Pt.* which is ½ mm. shorter in the fore-wing, and 1 mm. shorter in the hind-wing. First 4 segments of abdomen, 16 mm.

Type ♂ and allotype ♀ (British Museum), BELGIAN CONGO: Katanga, Kambove, 4000-5000 ft., 11.iv.1907 (*Dr. S. A. Neave*).

Umma distincta, sp. n.

♂. Abdomen, 38 mm. Hind-wing, 29 mm.

Head: Underside metallic emerald-green. Labium and underside of labrum shining black, tips of mandibles brown. Upperside of labrum and clypeus brilliant royal-blue. Frons and epicranium metallic blue and green. Two livid spots on either side of the labrum, the enlarged pedicels of the antennae also livid in colour, the other joints black. Eyes dark brown. *Prothorax*: Metallic emerald-green. *Synthorax*: Metallic emerald-green, with some royal-blue on the dorsum, and the following pale yellow: the 2nd lateral suture to one-fourth of the distance from the wing-base; the outside edge of the metepimeron; some touches at the wing and leg-bases; the urosternite and margin of the poststernum. *Abdomen*: The whole, from and including the first segment to the anal appendages, brilliant metallic emerald-green. Underside bronze-black. *Legs*: Metallic emerald-green, with some royal-blue at the joints. Tarsus black, claws dark brown. *Wings*: Hyaline, but suffused with a golden-green sheen. All veins metallic green. *Pt.* metallic, of an aquamarine colour, 2-2½ mm. long in the fore-wing covering 4-5 cells, and 2¾ mm. long in the

hind-wing covering $4-4\frac{1}{4}$ cells. *Appendages*: The anal appendages seem almost identical with those figured for *U. puella* by Sjöstedt in "Odonaten aus Abessinien" (1917, *Arb. Zool.*, 2).

♀. Abdomen, 36 mm. Hind-wing, 31 mm.

The colouring differs from the male only in the following: legs bluer; dorsum less blue; more emerald; 10th segment of abdomen golden-green; wing-veining metallic blue. *Pt.* $1\frac{1}{2}$ mm. long in fore-wing covering $2\frac{1}{4}$ cells, and 2 mm. in the hind-wing covering $3-\frac{1}{2}$ cells.

Type ♂ and allotype ♀ (British Museum), NORTHERN RHODESIA: Kambol Lake Tanganyika, August 1895 (*W. H. Nutt*).

Umma distincta closely resembles *Umma electa*, forming a distinct group with the latter as instanced by the metallic legs, the metallic pterostigma and the shape of the penis. It differs from *U. electa* by the smaller dimensions; the much greener colouring of the whole insect; the blue pterostigma; the shape of the inferior anal appendages, and the shape of the penis (figs. 6, 13, p. 144).