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Some Carpenter Bees (Hym.).

By T. D. A. COCKERELL, Boulder, Colorado.

The Xylocopine bees listed below were received from the Queensland Museum. Two prove to be undescribed; the types are in my collection. The others mostly represent new localities.

Xylocopa valga Gerst. Ras-el-Ma, Algeria, ♀. (Queensl. Mus. 39.). Alfken records *X. valga* from two localities in Algeria.

Xylocopa amedaei Lepel. Ras-el-Ma, Algeria, ♀. (Queensl. Mus. 40.). Originally described from Algeria.

Xylocopa brasiliatorum (L.) "Guyane, Maroni." ♀. About 21 mm. long, wings not quite so dark as usual (Queensl. Mus. 13.)

Xylocopa medionitens sp. n.

♀. Length about 22.5 mm., anterior wing 17 mm., width of abdomen nearly 9.5 mm.; black, with black pubescence, but that on thorax above fox-red, leaving a shining median area extending to anterior margin of mesothorax, its anterior portion with black hair; head 7 mm. wide, tubercles of labrum ordinary; clypeus with large and coarse, not dense, punctures; upper part of clypeus bounded by a shining swollen rim, which has a small tubercular projection in middle; hair of head entirely black; extreme end of scape, and second antennal joint, largely red; third joint little longer than next two together; flagellum greyish-brown beneath except at base; pleura black-haired; tegulae black; wings reddish-fuliginous, subtranslucent, the apical field darker, iridescence pale golden, the apical region coppery; venation normal; legs black-haired, hind tibiae with a smooth shining space on outer side; abdomen shining, black-haired, well punctured, with a rather indistinct median keel above and a distinct one below.

Hab.—"Guyane, Maroni" (Queensl. Mus. 7). From Enderlein's short description, this might be *X. rufidorsum* Enderl., from Peru; but the wings appear to be lighter and differently colored, and the very difficult locality would suggest a distinct form. Enderlein says that his insect, except for size, recalls the African *X. mixta*; but *X. medionitens* does not suggest *mixta*. Among the African species it resembles *X. carinata fulvopilosa* Friese. In Schrottky's table the new species falls nearest to *X. aurulenta* (Fab.), to which it is evidently allied, but the size is quite different, and Lepeletier says the sides of the thorax are red-haired in *aurulenta*.

From *X. similis* Sm. it is known by the absence of red hair on first abdominal segment.

Xylocopa frontalis (Olivier.) var. ***morio*** (Fabr.). "Guyane, Maroni." ♀ ♂. (Queensl. Mus. 1, 2). The female has the wings black, shining green. The *morio* form is perhaps a distinct species. *X. frontalis* proper, from Paraguay, has the wings shining purple.

***Mesotrichia ceramensis* sp. n.**

♂. Length about 20 mm., anterior wing 18 mm.; robust, densely covered with short pale pubescence, which is whitish-ochreous (hoary) on head, thorax and first abdominal segment, warm ochreous on the rest of abdomen; eyes prominent; small spot at base of mandibles, large spots at extreme sides of clypeus (extended mesad more or less to form a submarginal band), and stripe down middle of clypeus, dull yellow; scape in front (except apically), and flagellum beneath (except at base) ferruginous; front, vertex and sides of face with some admixture of dark hair; no black hair at sides of abdomen; last ventral segment of abdomen with a median keel; femora with very scant hair, largely black; front and middle tibiae with pale hair, much like that of thorax; hind tibiae with ochreous hair on outer side, in the midst of which is a bright rufous band, but beneath the hair of these tibiae is partly black; anterior and middle tarsi with long hair, deep fox-red in front, paler behind; hind tarsi with rufous hair on outer side and black on inner; lower border of hind femora with a shallow broad median excavation; hind tibiae with a large apical tubercle on inner side; wings yellowish-brown, first transverso-cubital nervure nearly obsolete.

Hab.—East Ceram, 1913 (*H. Elgner*). Queensland Museum, 15. A female of *Mesotrichia unicolor* (*Xylocopa unicolor*) comes with the same data (Queensl. Mus. 14), and I might have supposed the new form to be its male, but for the fact that the male of *M. unicolor* (already recorded from Ceram by Friese) is known and has a yellow clypeus. *M. ceramensis* is very close to *Xylocopa* or *Mesotrichia provida* (Smith), judging by Smith's description, but Bingham has examined males of *provida* in the British Museum, and cannot separate them from *M. bryorum* (L.). Our insect is quite distinct from *bryorum*, and is especially to be known by the pallid (not at all greenish) hair of the head and thorax.

Mesotrichia torrida Westwood. N. Djole, Gabon, ♂. (Queensl. Mus. 3.)

Mesotrichia calens malagassa (Saussure). Miarinarivo, Madagascar, ♀. (Queensl. Mus. 10.). Described by Saussure in 1891 as a variety of *Xylocopa olivacea*.