

XXXIV HYMENOPTERA, V: FOSSORES.
DIPLOPTERA, CHRYSIDIDAE.

By Lieut.-Colonel C. G. NURSE.

With a few exceptions, the specimens obtained belong to species well known as occurring in Burma, Tenasserim, and N. E. India. Our knowledge of the smaller aculeate Hymenoptera still leaves much to be desired, and I have not attempted to describe, except in the case of an *Ampulex* which is undoubtedly unknown, new species from the very insufficient material available. Many of the genera occurring in India badly require revision, and it is quite likely that as more material becomes available, several of the forms now passed over as "sp. inc." may prove to be new.

FOSSORES.

MUTILLIDAE.

Mutilla blanda, Smith.

One ♀ from E. bank of Dihong River, between Pasighat and Kobo, 15-xii-II.

Mutilla cassiope, Smith.

One ♀ from Dibrugarh, N. E. Assam, 26-xi-II.

Mutilla sp. inc.

One ♀ from Sadiya, N. E. Assam, 26-xi-II.

SCOLIIDAE.

Tiphia intrudens, Smith.

A ♂ from Dibrugarh, 17-19-xi-II.

Scolia, sp. inc.

A ♀ from Kobo, 9-xii-II.

There is no specimen exactly like this either in the B.M. or in my own collection. It is nearest to *S. floridula* (Bingh.) but I note that Bingham, in arranging the B. M. collection, placed his type of that species under *sikkimensis* (Bingh.) though in his volume I of the "Fauna of India" series, he gives his *floridula* as a synonym of *S. kirbyi*, Magretti. The species of this genus are very variable.

Elis iris, Lepel.

Three ♂ ♂ and two ♀ ♀ of this widely spread species, from various localities.

Elis annulata, Fab.

A specimen of each sex. This species is common and extends almost throughout the Oriental Region.

CEROPALIDAE (POMPILIDAE).**Macromeris honesta**, Smith.

One ♀ from Upper Rotung, 21-i-12.

This species, which was described by Smith as a *Pompilus*, and is included by Bingham in the genus *Pseudagenia*, is undoubtedly a *Macromeris*. The specimen is quite typical, and differs in no way from others in the B. M. and my own collection. The generic character must have been overlooked by Bingham, but is quite obvious.

Pseudagenia tincta, Smith.

A ♀ from Dibrugarh, 17-19-xi-11.

Salius praestabilis, Bingham.

One ♀ from Sadiya, 23-xi-11.

Pompilus, spp.

There are four specimens from different localities, belonging to probably three different species. Two of them are in indifferent condition. I cannot identify with certainty either of the others, as this genus badly requires revision. The largest specimen from Kobo (3-xii-11) is very probably undescribed.

SPHEGIDAE.**Tachysphex**, sp. inc.

One ♀ from Kobo, 400ft., 6-xii-11.

Notogonia, sp. inc.

One ♀ from Janakmukh, 600ft., 17-xii-11.

Neither of the above are in sufficiently good condition for accurate determination.

Liris aurata, Fab.

Two ♀ ♀ ; one Sadiya, 23-xi-11, and one Kobo, 400ft., 9-xii-11.

There is an error in Bingham's description of this species in Vol. I—Hymenoptera. He says "median segment long, as long as the rest of the thorax and head united." This should read

“as long as the rest of the thorax.” I have compared the specimens with those in the B. M. collection, and the determination is quite certain. It is an extremely widely spread species.

***Liris ducalis*, Smith.**

Six ♀ ♀, five of which are from Sadiya, various dates, and one from Rotung, 1400ft., 25-xii-11.

***Paraliris faceta*, Bingh.**

A ♀ from Dibrugarh, 22-xi-11.

***Trypoxylon*, sp. inc.**

One specimen from Rotung, 1400ft., 24-xii-11.
Not in sufficiently good condition for certain determination.

***Ammophila atripes*, Smith.**

One ♂ from Sadiya, 27-xi-11.

***Sceliphron madraspatanam*, Fab.**

A ♀ from Dibrugarh, 19-xi-11.

***Sphex umbrosus*, Christ.**

One ♀ of this very widely spread species from Dibrugarh.

***Ampulex aborensis*, n. sp.**

♀ Head with the frontal area sparsely and shallowly punctured, vertex and pronotum almost impunctate; mesonotum with a few large and sparse punctures; mesopleurae somewhat sparsely punctured; abdomen impunctate. Clypeus with a very conspicuous central longitudinal carina, which makes it appear almost rostrate when viewed sideways, this carina produced backward to the anterior ocellus; besides the central carina there are two other carinae, which, starting behind the anterior ocellus, lead towards the base of the antennae, becoming more pronounced as they near the latter. Pronotum nearly half as long again as mesonotum, widening gradually towards it; median segment longer than the mesonotum, transversely striate above, and reticulate at the sides, the reticulations gradually disappearing towards the lower portion of the segment. First abdominal segment with the petiole less than half its length, the apex of the segment not much narrower than the 2nd segment.

Brilliant metallic blue, with greenish reflections, the metallic colour continued to nearly the apex of the femora of all the legs, the tibiae also metallic above; below the tibiae and tarsi are rufescent; mandibles black. Pubescence sparse, greyish; there

are a few strong yellowish hairs on the anterior margin of the clypeus and the tibiae and tarsi are covered with a rufous pile; tarsal claws unidentate. Wings fuscohyaline, with 3 cubital cells.

L. 16 mm.

Hab. Kobo, 400 ft., 3-xii-11. "Flying on fallen tree trunk."

This is quite distinct from any described Indian species, most of which have red femora.

***Psenulus*, sp. inc.**

Two specimens from Dibrugarh, which may be a variety of *P. pulcherrimus*, Bingh., but differ somewhat in the colour of the petiole.

***Stigmus niger*, Motsch.**

One ♀ from Kobo, 400ft., 9-xii-11.

***Crabro*, sp. inc.**

One damaged specimen from Kobo, 3-xii-11. Impossible to determine.

DIPLOPTERA.

EUMENIDAE.

***Eumenes arcuata*, Fab.**

One ♂ from Sadiya, 28-xi-11.

***Labus humbertianus*, Sauss.**

One ♂ from Kobo, 400ft., 3-xii-11.

***Rhynchium argentatum*, Fab.**

One ♂ from Sadiya.

***Odynerus fragilis*, Smith.**

Two ♂ ♂ from Dibrugarh, and 3 ♀ ♀ from Sadiya.

***Odynerus icaroides*, Bingh.**

One ♀ from Sadiya, 28-xi-11.

VESPIDAE.

***Polybia orientalis*, Sauss.**

Sixteen specimens, all ♀ ♀, from Yembung and Kobo.

***Polybia indica*, Sauss.**

Eight specimens from Upper Rotung; all ♀ or ♀

***Icaria ornaticeps*, Cam.**

One ♀ from Puding, 3000ft., and one from Sadiya.

***Icaria artifex*, Sauss.**

One ♂ from Sadiya, and 3 ♀ ♀ from Sadiya and Dibrugarh.

***Icaria variegata*, Smith.**

Two ♂ ♂ and several ♀ ♀ from Rotung and Sadiya.

***Polistes hebraeus*, Fab.**

One pair from Sadiya.

***Vespa magnifica*, Smith.**

Two ♀ ♀ and two ♀ ♀ from Rotung, Kobo, Sadiya, and Dibrugarh.

***Vespa ducalis*, Smith.**

One ♀ from Rotung, and one from Dibrugarh.

***Vespa cincta*, Fab.**

One ♀ from Kobo.

***Vespa dorylloides*, Sauss.**

One ♀ from Upper Rotung.

***Vespa basalis*, Smith.**

Four ♀ ♀ from Sadiya and Kobo.

***Vespa bicolor*, Fab.**

Two ♀ ♀ and 3 ♀ ♀ from various localities.

CHRYSIDIDAE.***Chrysis durga*, Bingh.**

One ♀ from Sadiya, 23-xi-11.
