

one locality, by the margin of a little stream on the borders of the forest, at 4500 feet altitude. Several varieties of the species to which I attribute it are already known to me, the only peculiarity about this variety being that it is so locally confined to one spot and so nearly constant in pattern. About twenty specimens were collected.

Photuris simplex (p. 61).

One specimen, a single female from Costa Rica, referred to as doubtfully belonging to this species, is not identical with it, having the claws simple. It is a female of *P. crassa* or of a very closely-allied species.

Typical specimens of both sexes of this species have now been sent from the Volcan de Chiriqui, as well as several which vary considerably, and I am now disposed to unite *P. scapularis* with them; the arrangement of the different forms will therefore now be as follows:—

Photuris simplex, Gorh., ante, p. 61.

Hab. COSTA RICA, Volcan de Irazu, Rio Sucio (*Rogers*, ♀); PANAMA, Volcan de Chiriqui 5000 to 6000 feet (*Champion*, ♂ ♀).

Mr. Champion remarks:—"This is one of five species of Lampyridæ occurring at a certain altitude (5500 feet) in the dense virgin forest on the Volcan de Chiriqui and not lower." But if, as I believe, the varieties mentioned here are conspecific, then we have simply the effect of a change in altitude producing a well-marked, though slight, change in colour and sometimes in size; even among these typical specimens some have the tibiæ and tarsi black, thus proving their specific instability.

Var. α. Geniculis, tibiis, tarsis et abdominis segmentis quatuor basalibus nigris.

Hab. PANAMA, Bugaba, Volcan de Chiriqui 2000 to 4000 feet (*Champion*).

Var. β. Similis varietati α; elytris autem ad apicem nigricantibus; capite et pectore fuscis.

Hab. PANAMA, Bugaba, Volcan de Chiriqui 2000 to 4000 feet (*Champion*).

Var. γ. Capite, elytris basi, macula humerali, tibiis tarsisque nigris. (*P. scapularis*, Gorh. ante, p. 62.)

Hab. GUATEMALA, Cerro Zunil, Panajachel (*Champion*).

Var. δ. Capite flavo; ore, antennis, palpis, pedibus, corpore subtus (abdominis segmentis tribus apicalibus exceptis) nigris, elytris maculis duabus subscutellaribus fuscis.

Hab. MEXICO, Juquila (*Höge*).

PHENGODES (p. 63).

Phengodes bimaculata (p. 63).

To the localities given, add:—PANAMA, Bugaba, Volcan de Chiriqui (*Champion*).

Two specimens, one from each of the above localities, differ from the type in having