

which are said to be less than 50 mm. long and to have the subaculear tooth represented by a small tubercle.

It is probable that *C. elegans* and *C. limpidus* represent distinct subspecific forms of one and the same species, and no doubt many more will be brought to light with diligent collecting in other localities.

In addition to the two already discussed, the following may, I think, be recognized:—

Subsp. *insularis*, nov.

Resembling the forms identified above as *C. elegans* and *C. limpidus* in colour, size, and structural features, but without any trace of marbled variation on the legs, chelæ, chelicerae, or underside of the tail, as in *C. elegans*.

*Hab.* MEXICO, Tres Marias Is. (*Forrer*).

Three specimens—one male and two females.

Subsp. *nigrovariatus*. (Tab. V. figg. 4, 4 a, ♂.)

*Centrurus nigrovariatus*, Pocock, Ann. & Mag. Nat. Hist. (7) i. p. 387 (1898) <sup>7</sup>.

*Centrurus infamatus*, var. *nigrovariatus*, Kraepelin, Das Tierr., Scorpiones et Pedipalpi, p. 90 (1899) <sup>8</sup>.

♂. Resembling male of form referred to *C. elegans* in colour and most structural features, but differing in the formation of the posterior segments of the tail, the fifth segment being wider than the first, with its upper surface much elevated in the middle, with a deep median groove expanding posteriorly into an oval depression.

*Measurements in mm.*—Total length 52, carapace 4.5, tail 33; width of its first segment 2.3, of its fifth 2.7; height of latter 2.5.

*Hab.* MEXICO, Oaxaca <sup>7</sup>.

Subsp. *pallidiceps*, nov.

♀. A pale form, with the chelæ, legs, and tail without trace of infuscation, and the carapace without stripes, only the ocular tubercle and the lateral border being infuscate; the spots on the terga faint. Further differing from *C. elegans* in having a relatively large and triangular subaculear tooth. Pectinal teeth 19.

*Measurements in mm.*—Total length 54, carapace 5.5, tail 33.

*Hab.* MEXICO, Presidio (*Forrer*).

One specimen.

### 3. *Centrurus vittatus*. (Tab. VI. figg. 1, 1 a, b, ♀ ♂.)

? *Tityus infamatus*, C. Koch, Die Arachn. xi. p. 46, fig. 873 (1845) <sup>1</sup>.

*Buthus vittatus*, Say, Journ. Ac. Sci. Philad. ii. pp. 61, 62 (1821) <sup>2</sup> [nec *Buthus vittatus*, Guérin, Voyage de la Coquille, ii. 2, p. 50 (1830)].

*Scorpio (Atreus) californicus*, Girard, in Marcy's Rep. Red River, p. 269 (1853) <sup>3</sup>.

*Buthus californicus*, Wood, Journ. Ac. Sci. Philad. (2) v. p. 364 (1863) <sup>4</sup>.

*Buthus carolinianus*, Wood, Journ. Ac. Sci. Philad. (2) v. p. 363 (1863) <sup>5</sup> [nec *Scorpio carolinianus*, Palisot de Beauv. Ins. rec. Afr. Amér. p. 191, t. 5. fig. 3 (1821), which = *Vajovis carolinianus*].

? *Centrurus olivaceus*, Thorell, Atti Soc. Ital. Sci. Nat. xix. p. 145 (1877) <sup>6</sup>.

*Hab.* NORTH AMERICA <sup>3</sup>, Georgia <sup>2</sup>, Florida <sup>2</sup>, Kansas <sup>5</sup>, Texas <sup>5</sup>, California <sup>4</sup>.