

## THE SPECIES OF EUCOPTOCNEMIS.

BY A. R. GROTE, A. M., BREMEN, GERMANY.

In 1874 I proposed the generic term *Eucoptocnemis* for the *Heliophobus fimbriaris* of Guenée, Noct. I., 172, whose statement that the species had two terminal spines on the anterior tibiæ rendered its reference to the genus *Heliophobus* of Boisduval improbable. In reality our species appears not congeneric with the European *Heliophobus hispidus*. At the time of proposing the genus I had no material. Later on I examined two or three specimens taken near the coast of Massachusetts, but they were so worn that I could not satisfactorily identify the species, while they probably belonged to Guenée's *fimbriaris*. In a considerable collection from New York, which I have identified for the Bremen Museum, I find, however, quite a number of specimens which I determine as Guenée's *fimbriaris*; the material is generally well preserved, most of the insects are quite or sufficiently perfect, and both sexes are represented. An examination gives us the following structural characters:—The abbreviated anterior tibiæ show two longer terminal spines and a row of shorter spinules on each side. Besides the pair of calcaria, the inner spur of which is shortest, the middle tibiæ are also provided with spinules; the hind tibiæ, with two pair of spurs, are also armed. The testaceous legs are sparsely clothed with pale hair (allowing the armature to be easily studied), and in this respect showing affinity to our Western *Cladocera niveivenosa*, Grt. The antennæ are long, in the male finely bipectinate, the pectinations gradually decreasing to the tips, in the female simple. The front is smooth, without tubercle. The palpi are somewhat divaricate, with short terminal article. The thorax is short and square, somewhat densely clothed with hair-like scales, pilose. The abdomen is comparatively short, not exceeding the secondaries, untufted, thinly scaled and rather weak. Wings broad, with the fringes long and even, unicolorous. Eyes naked, adorned with a variable pattern of black markings, unlashd.

*EUCOPTOCNEMIS FIMBRIARIS*, Guen., V., 172 (*Heliophobus*).

Grt. Bull. B. S. N. S. I., (13), 1874.

9 ♂s, 4 ♀s. Forewings broad, triangulate, silky, of a more or less determinate grayish-red, in some specimens the red is quite clear, somewhat brickish in tint; this is the case in all the females examined. Maculation subobsolete. Orbicular reduced to a dark or blackish spot, which in one or two individuals shows a few central pale scales. Reni-