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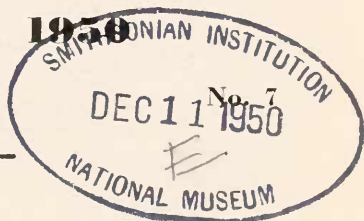
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pable of stridulating. On Sept. 10, 1947, a brown female assumed the "scaring attitude" with the wings outspread and held vertically above the back. The abdomen was flipped rapidly backward and forward, its sides rubbing on the veins of the dorsal surface of the hind wings, causing a rasping sound.

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- JUDD, W. W. 1947. The European praying mantis (*Mantis religiosa* L.) at Hamilton, Ontario. Canadian Field-Naturalist, 61: 197.
SMITH, C. W. 1949. The distribution in Ontario of the European Mantis, *Mantis religiosa* L. Seventy-ninth Ann. Rep. Entomol. Soc. Ontario, 1948: 41-44.

Contribution to the Knowledge of Chinese Coccinellidae. X. Occurrence of *Perilitus coccinellae* (Schrank), a Parasite of Adult Coccinellidae, in North China (Hymenoptera, Braconidae)

By C. L. LIU, Tsing Hua University

Since reporting the occurrence in Yunnan of the Euphorine Braconid, *Perilitus coccinellae* (Schrank), a parasite of adult Coccinellid hosts, in this journal,¹ search has been continued for this remarkable species after our return to the north. Five specimens have so far been encountered during the months of April through June. Two of these were collected from the vicinity of Tsing Hua Yuan where the University is located, and the remaining three from the District of Funing, in eastern Hopei Province. For Tsing Hua Yuan the latitude is 40°00' N and for Funing, 39°53'30" N, with a difference of 6½ minutes. Tsing Hua Yuan is situated on longitude 116°17' E, and Funing, 119°12' E, the latter being approximately 250 kilometers (air distance) due east from Tsing Hua Yuan. The elevation for

¹ LIU, C. L. 1944. Contributions to the knowledge of Chinese Coccinellidae. VI. Occurrence of *Perilitus coccinellae* (Schrank), a parasite of adult Coccinellidae, in Yunnan (Hymenoptera, Braconidae). Ent. News, 55: 235-7.

Tsing Hua Yuan is exactly 50 meters and that for Funing is approximately 30 meters, the latter being not far from the coast of the Gulf of Liaoning. Geographical relationship places these two localities in the same category and their climate is similarly north temperate.

These preliminary findings extend the geographical distribution of *Perilitus coccinellae* by nearly 15 degrees to the north of Yunnan on mainland China. As the recorded hosts of this parasite are well represented in the intervening areas between Hopei and Yunnan, there seems every probability that the present parasite will sooner or later be discovered in this region. Similarly one may confidently expect its occurrence in the North-eastern Provinces.

Sonan (1939)² reported collecting *Perilitus coccinellae* from Taipei (Taihoku), Formosa. This locality has a latitude of 25° 2' N and longitude of 121° 30' 30" E and an elevation of below 50 meters.

As compared with Kunming, Tsing Hua Yuan is 15° north and very much lower in elevation. Taipei is almost on the same latitude as Kunming but with an elevation equaling that of Tsing Hua Yuan. The climate in Taipei is considerably warmer than in Kunming but since it is still some 2° above the Tropic of Cancer, it is still within the temperate zone.

It may now be said that so far as China is concerned the probable distribution of *Perilitus coccinellae* lies within an area roughly bounded on the north by 40° and south by 25° latitude and on the east by 121° and on the west by 102° longitude. The climate of this area is temperate.

The five cases reported herein involve three different host species: *Coccinella axiridis* Pallas, *Coccinella septempunctata* L. and *Adonia variegata* Goeze. As may be noted, all these are aphid feeders. Although the host list for North China may be extended with further investigation, it must be mentioned that of the hundreds of specimens of the two local species of *Epilachna*, no case of parasitism by *Perilitus* was ever observed. Sonan (1939)² reported the same thing from Formosa.

² SONAN, JINHAKU. 1939. On the lady-birds parasite, *Perilitus coccinellae* (Schrank) (Hym. Braconidae). (In Japanese.) Trans. Nat. Hist. Soc. Formosa, 29: 225-9.