

Wing venation anomaly in *Chrysopa formosa* Brauer, 1850 (Neuroptera: Chrysopidae)

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Abstract: A male *Chrysopa formosa* Brauer, 1850 with four-sided first intramedian cells on both forewings is described. This specimen was found at a locality in south-western Anatolia.

Key words: Neuroptera, Chrysopidae, *Chrysopa formosa*, morphological anomaly, Turkey.

Anomalía en la venación alar de *Chrysopa formosa* Brauer, 1850 (Neuroptera: Chrysopidae)

Resumen: Se describe un macho de *Chrysopa formosa* Brauer, 1850 cuyas primeras celdas intramedianas de ambas alas anteriores tienen cuatro lados. El ejemplar se encontró en una localidad del suroeste de Anatolia.

Palabras clave: Neuroptera, Chrysopidae, *Chrysopa formosa*, anomalía morfológica, Turquía.

One male *Chrysopa formosa* Brauer, 1850 collected by the authors (Turkey, Muğla province, Milas county (Yusufca Village near), 37°19'N 27°51'E, 175 m, 16.07.2001), had four-sided first intramedian cells in both forewings, see Fig. 1. The specimen was netted on *Quercus coccifera*. Another two male and one female with normal wing venation was netted on *Quercus coccifera* at the same place and same date.

The shape of the first intramedian cell is used as an important character to separate the genus *Chrysopa* from the genus *Nothochrysa* and *Rexa*. However, Killington (1936-1937) remarks on the occasional occurrence of abnormal *Chrysopa* specimens where four-sided cells occur. Ohm (1961) surveyed several species of *Chrysopa*, mostly from northern Germany, when looking for four-sided cells and found these more or less common in several species. Greve (1969) one female *C. albolineata* collected from Norway, had four sided first intramedian cells in both forewings.

In *C. abbreviate* Curtis, 1834 he found up to 31 % with four-sided cells in one or both wings, while in 4 specimens of *C. formosa* we found one specimen where both forewing had four-sided cell.

The present specimen otherwise looks like a normal *C. formosa* and differs vertex partly with two black spot from *C. abbreviate*, genus *Rexa* and *Nothochrysa* to which it has been compared.

C. formosa has been reported from Turkey, Adana (Balcalı, Feke, Kozan), Amasya, Ankara (Merkez), Isparta (Merkez), Istanbul (Erenköy), Kayseri (Felahiye, Talas), Izmir (Bornova, Tire) by Arı & Kiyak (2000), Canbulat (2002), Canbulat & Kiyak (2000), Hölzel (1967), and Şengonca (1979, 1980, 1981).

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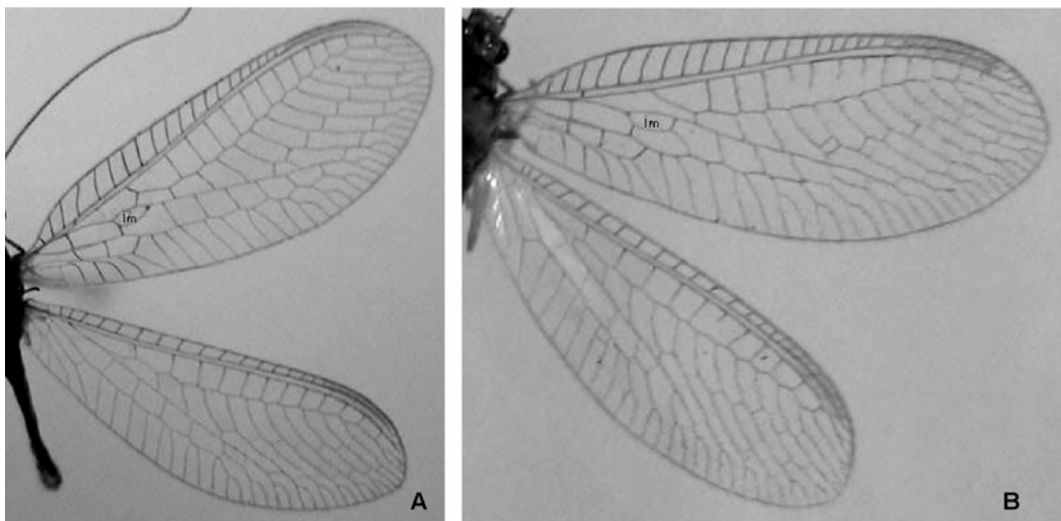


Fig. 1. A. Normal wing-venation of *Chrysopa formosa*. B. Abnormal foursided cell