

NEW DATA ON *EURLYMATA PICTURATA* (BLANCHARD) (HEMIPTERA: HETEROPTERA)

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INTRODUCTION

Eurylomata picturata (Miridae: Mirinae: Resthenini) is a plant bug native from Argentina and Chile. This species is associated to some agricultural crops, especially potatoes; however its knowledge is relatively poor.

Objectives: To describe the V instar nymph; giving new information on biology; examine the taxonomic relationships of the morphs.

MATERIALS AND METHODS

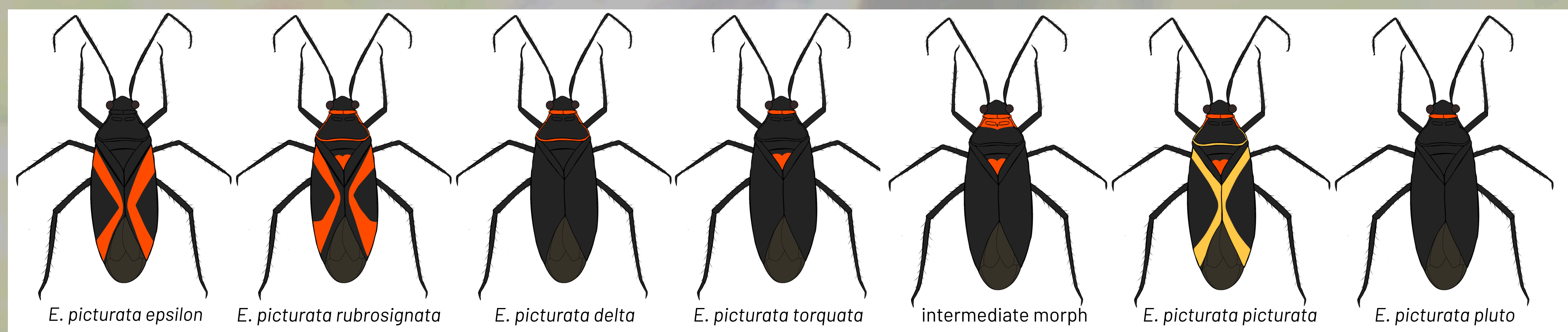
Observations and samples were taken in Temuco city, Araucanía Region, in Southern Chile.

Morphology and descriptive format follows Faúndez & Carvajal (2016) and Carvalho (1944). Specimens were preserved in ethanol for further observation and dissections; and are deposited in the authors' personal collection.

RESULTS AND DISCUSSION

Taxonomy

Currently six morphs with subspecies rank are known for this species (Fig. 1). After observing these morphs copulating together (Fig. 2), plus genitalia examination and comparison, together with the finding intermediate forms; we concluded that all the morphs are synonyms. Thus these morphs do not deserve the subspecies rank.



Biology

Specimens were collected in a native shrub *Fuchsia magellanica* (Onagraceae), becoming the first record of the species in the shrub layer. Also, we observed carrion feeding by an adult female on dead specimens of *E. picturata* (Fig.3).

V nymph diagnosis (Fig. 4)

General coloration blackish with orange ornaments mainly on eyes and a longitudinal midline from head to protoscutellum, and the anterior third of the abdomen. Head subtriangular shaped, first antennomere longer than the head and rostrum reaching mesothorax. Thorax with trapezoidal pronotum, pterothecae reaching half of the abdomen, surpassing protoscutellum. Dorsal abdominal gland opening between abdominal segments III and IV, located on a shiny black tubercle.



Fig. 4. V nymph of *E. picturata*.

Fig. 2. Copulation of different morphs of *E. picturata*



Fig. 3. Female of *E. picturata* feeding on a dead male

CONCLUSION

E. picturata is a polymorphic species and there are no subspecies for this taxon. Previous information locates this species only in low herbs, but now it is shown to develop also in high shrubs. In addition, we observed carrion feeding in adult females on dead specimens which is recorded for the first time for this species. The V nymph here described is the first immature stage known for *E. picturata*.

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REFERENCES

- Carvalho, J.C.M. (1944). Mirídeos neotropicales: Revisão do género «*Eurylomata*» Reuter (Hemiptera). Rev. Bras. Biol. 4(1): 95-101.
- Faúndez, E.I., & Carvajal, M.A. (2016). Description of the 5th instar nymph of *Oenopiella punctaria* (Stål, 1859) Hemiptera: Heteroptera: Pentatomidae, with new distributional records from Southern Patagonia. Zootaxa, 4067(2), 246-250.
- Navarro P.G., Faúndez E.I., Monje, A.C. & Tellez, F. (2020). *Eurylomata picturata*: potencial plaga en cultivo de papa para el sur de Chile. Tierra Adentro, 113, 53-57.
- Reuter, O.M. (1909). Genera quatuor nova divisionis Capsidarum Restheniaria. Öfversigt af Finska Vetenskaps-societetens Förhandlingar, 51(24): 12 pp.