



**FIRST RECORDS OF AQUATIC HETEROPTERA  
FROM FRIULI-VENEZIA GIULIA (ITALY)**

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**Abstract** – Two species of aquatic Heteroptera are recorded for Friuli-Venezia Giulia (Italy) for the first time: *Anisops sardeus sardeus* Herrich-Schäffer, 1849 (Nepomorpha, Notonectidae) and *Gerris (Gerris) argentatus* Schummel, 1832 (Gerromorpha, Gerridae). Remarks on their general distribution are also given.

**KEY WORDS:** Hemiptera, Nepomorpha, Gerromorpha, *Anisops sardeus*, *Gerris argentatus*, Friuli-Venezia Giulia, first records.

**Izvešček** – PRVI NAJDBI VODNIH STENIC (HETEROPTERA) V FURLANIJI-JULIJSKI KRAJINI (ITALIJA)

Dve vrsti vodnih stenic sta prvič zabeleženi za Furlanijo-Juljsko krajino (Italija): *Anisops sardeus sardeus* Herrich-Schäffer, 1849 (Nepomorpha, Notonectidae) in *Gerris (Gerris) argentatus* Schummel, 1832 (Gerromorpha, Gerridae). Podane so tudi pripombe o njihovi splošni razširjenosti.

**KLJUČNE BESEDE:** Hemiptera, Nepomorpha, Gerromorpha, *Anisops sardeus*, *Gerris argentatus*, Furlanija-Juljska krajina, prvi podatki.

The knowledge of the aquatic Heteroptera (*sensu* Polhemus & Polhemus 2008) is still far from perfect in Italy, especially concerning their distribution (Cianferoni & Terzani 2013).

The study of some recently collected samples in Friuli-Venezia Giulia (Italy) allowed us to identify two species which were not previously recorded for this region:

*Anisops sardeus sardeus* Herrich-Schäffer, 1849 (Nepomorpha, Notonectidae) and *Gerris (Gerris) argentatus* Schummel, 1832 (Gerromorpha, Gerridae).

**Material examined:** Ospedaletto, Lago [=Lake] Minisini, 46.2976° N 13.1242° E (WGS84), Gemona del Friuli (UD), 208 m a.s.l., 15.VIII.2014, S. Cianfanelli & M. Calcagno leg., *A. sardeus*—1 male, 2 females, 1 V instar nymph; *G. argentatus*—1 micropterous female (alcohol entomological collection: Natural History Museum of the University of Florence, Zoological Section “La Specola”).

*Anisops sardeus* is a widespread species, occurring from the Afrotropical region to the Mediterranean Basin, and reaching India and Myanmar eastwards (see Cianferoni & Pinna 2012 for its updated distribution in Italy). This element recently showed a tendency to spread its range northwards, with new records in Europe from southern Russia, Hungary, Romania, and Slovakia (see Reduciendo Klementová & Svitok 2014 for a review). In Italy it has been discovered in Veneto (Cianferoni & Pinna 2012) and frequently recorded in central-northern Italy (Cianferoni & Terzani 2013; unpublished data). It has been also rediscovered in the Middle Dalmatian Islands (Croatia) after a long time (Kment & Beran 2011). Due to this trend and to the present record for Friuli-Venezia Giulia we can expect to find this species also in the neighboring countries like Slovenia and Austria.

*Gerris argentatus* is a Sibero-European species, known to date in almost all Italian regions (except Valle d’Aosta, Friuli-Venezia Giulia, and Molise), and in the countries neighboring Friuli: Slovenia and Austrian Carinthia (Servadei 1967; Gogala 2003; Rabitsch 2003; Bacchi & Rizzotti Vlach 2007; Cianferoni & Mazza 2012). Due to the scant and scattered records, its distribution in most of Italy requires further investigation (Cianferoni & Mazza 2012).

Dioli (1987) presented a comprehensive checklist of the Heteroptera of Friuli-Venezia Giulia, but up to date it is still not possible to know the exact number of the aquatic taxa living there because some records (cf. Servadei 1967; Dioli 1979) need verification.

### Riassunto

Due specie di Eterotteri acquatici sono segnalate per la prima volta per la regione Friuli-Venezia Giulia: *Anisops sardeus sardeus* Herrich-Schäffer, 1849 (Nepomorpha, Notonectidae) e *Gerris (Gerris) argentatus* Schummel, 1832 (Gerromorpha, Gerridae). Inoltre vengono fornite note sulla distribuzione generale dei due taxa.

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