

## SCIENTIFIC NOTES

**NEPOMORPHAN FAUNA OF ÇORUM PROVINCE  
(HEMIPTERA: HETEROPTERA)****Ali Salur\* and Seda Mesci\*\***

\* Hitit University, Faculty of Science and Arts, Department of Biology, 19030 Çorum, TURKEY.

\*\* Gazi University, Institute of Science and Technology, Department of Biology, 06500 Ankara, TURKEY.

[Salur, A. & Mesci, S. 2011. Nepomorphan fauna of Çorum province (Hemiptera: Heteroptera). *Munis Entomology & Zoology*, 6 (2): 1014-1016]

Çorum province is located in the Black Sea Region of Turkey. The aquatic Heteropteran fauna of this province is scarcely known. Nepomorphans in the families Nepidae, Pleidae, Notonectidae, Corixidae, Naucoridae were sampled at the Çorum province in Black Sea Region from 2006 through 2009 and 2010. Result of the research, 15 species of nepomorphan were recorded in Çorum province. Two species of nepomorphans have been recorded from the studied region previously, shown in the Table 1. 13 species appeared to be new for Çorum. Of these nepomorphans 12 species are here recorded for the first time from the Black Sea region. The known ranges of these species are expanded by the new findings.

**MATERYAL AND METHOD**

The studies were carried out in different periods between June and November 2006-2008 and 2010 in Çorum. Samples were collected from nineteen different localities with aquatic nets. Specimens were put into jars, preserved in % 70 alcohols and then softened and pinned. All the specimens were deposited in Hitit University Zoology Museum.

Localities: (Loc.1): Beydili village (marsh), 40° 37' N 34° 53' E; (Loc.2): Boğazönü village (bridge), 40° 19' N 34° 18' E; (Loc.3): Cemilbey village (stream) 40° 20' N 35° 03' E (Loc.4): Çatak (public park), 40° 41' N 34° 18' E; (Loc.5): Göcenovacıği village (small lake), 40° 20' N 34° 50' E; (Loc.6): Gökçeşinar village (small lake), 40° 22' N 35° 08' E; (Loc.7): Gölün yazı Lake, 40° 41' N 34° 54' E; (Loc.8): Hatap (stream), 40° 23' N 34° 48' E; (Loc.9): İskilip (18. km road iskilip); 40° 46' N 34° 47' E; (Loc.10): Kayı village (stream) 40° 24' N 35° 00' E; (Loc.11): Kızılırmak (25. km road dodurga), 40° 34' N 34° 45' E; (Loc.12): Obruk dam, 40° 46' N 34° 47' E; (Loc.13): Sarılık bridge , 40° 23' N 35° 04' E; (Loc.14): Seydim (Seydim Lake), 40° 33' N 34° 44' E; (Loc.15): Sıklık pass, 40° 34' N 35° 01' E; (Loc.16): Türkler village (stream), 40° 38' N 34° 52' E; (Loc.17): Küçük Keşlik village (small stream), 40° 15' 34° 39'; (Loc.18): Karapınar village (small stream and pool), 40° 28' 34° 56'; (Loc.19): Büyükgülücek village (small stream), 40° 20' 34° 43'.

According to Jansson (1986), only two species as *Corixa affinis* and *Hesperocorixa paralella* have been recorded from Çorum province.

## RESULTS

## Family Nepidae

*Nepa cinerea* Linnaeus, 1758

**Material Examined:** 1♀, (Loc.16), 03.06.2006; 2♂♂, 1♀, (Loc.16), 29.07.2006; 2♂♂, (Loc.16), 19.08.2006; 1 nymph, (Loc.15), 28.07.2006; 7 nymph, (Loc.16), 29.07.2006; 7 nymph, (Loc.16), 05.08.2006; 1 nymph, (Loc.2), 05.08.2006; 2 nymph, (Loc.16), 19.08.2006; 3 nymph, (Loc.2), 07.07.2007; 1 nymph, (Loc.2), 18.08.2007; 1 nymph, (Loc.8), 03.07.2008. **Remarks:** New for Çorum.

## Family Pleidae

*Plea minutissima minutissima* Leach, 1817

**Material Examined:** 7 samples, (Loc.1), 03.06.2006; 284 samples, (Loc.6), 12.08.2007; 60 samples, (Loc.6), 25.08.2007. **Remarks:** New for Çorum.

## Family Notonectidae

*Notonecta glauca glauca* Linnaeus, 1758

**Material Examined:** 1♂, (Loc.14), 30.06.2006; 1♂, 1♀, (Loc.14), 10.07.2006; 1♂, (Loc.4), 29.07.2006; 1♂, (Loc.8), 09.09.2007; 3♂♂, 5♀♀, (Loc.19), 07.11.2010. **Remarks:** New for Çorum.

*Notonecta viridis* Delcourt, 1909

**Material Examined:** 1♂, (Loc.14), 10.07.2006; 3♂♂, (Loc.14), 29.07.2006; 2♂♂, 3♀♀, (Loc.4), 05.08.2006; 1♀, (Loc.14), 05.08.2006; 5♂♂, 6♀♀, (Loc.4), 19.08.2006; 2♂♂, (Loc.5), 23.06.2007; 1♂, (Loc.5), 07.07.2007; 3♂♂, (Loc.2), 21.07.2007; 2♂♂, (Loc.2), 05.08.2007; 1♂, (Loc.13), 12.08.2007; 1♀, (Loc.2), 18.08.2007; 1♂, (Loc.13), 25.08.2007; 1♂, (Loc.8), 09.09.2007; 3♂♂, 1♀, (Loc.2), 09.09.2007; 2♂♂, (Loc.9), 21.05.2008; 7♂♂, 12♀♀, (Loc.17), 20.09.2010. **Remarks:** New for Çorum.

*Notonecta maculata* Fabricius, 1794

**Material Examined:** 1♂, (Loc.4), 05.08.2006; 1♀, (Loc.5), 23.06.2007; 1♀, (Loc.8), 07.07.2007; 1♂, (Loc.5), 07.07.2007; 1♂, (Loc.2), 21.07.2007; 6♂♂, 2♀♀, (Loc.2), 05.08.2007; 2♂♂, 5♀♀, (Loc.2), 18.08.2007; 4♂♂, 2♀♀, (Loc.8), 09.09.2007; 1♂, (Loc.2), 09.09.2007; 5♂♂, 6♀♀, (Loc.18), 07.11.2010. **Remarks:** New for Çorum.

## Family Corixidae

*Sigara lateralis* (Leach, 1817)

**Material Examined:** 1♂, 4♀♀, (Loc.1), 03.06.2006; 2♂♂, (Loc.3), 16.06.2007; 3♂♂, 3♀♀, (Loc.5), 07.07.2007; 17♂♂, 6♀♀, (Loc.10), 15.07.2007; 6♀♀, (Loc.6), 28.07.2007; 6♂♂, 13♀♀, (Loc.10), 28.07.2007; 79♂♂, 254♀♀, (Loc.10), 12.08.2007; 1♂, (Loc.10), 25.08.2007; 2♂♂, (Loc.6), 28.08.2007; 3♀♀, (Loc.1), 15.05.2008; 4♂♂, 4♀♀, (Loc.7), 04.08.2008; 2♀♀, (Loc.11), 04.08.2008. **Remarks:** New for Çorum.

*Sigara striata* (Linnaeus, 1758)

**Material Examined:** 4♂♂, 10♀♀, (Loc.1), 03.06.2006; 3♂♂, (Loc.7), 03.06.2006; 8♀♀, (Loc.7), 09.07.2006; 1♂, 1♀, (Loc.6), 25.08.2007. **Remarks:** New for Çorum.

*Sigara nigrolineata nigrolineata* (Fieber, 1848)

**Material Examined:** 1♂, (Loc.3), 30.06.2007; 1♂, (Loc.8), 07.07.2007; 1♂, (Loc.2), 21.07.2007; 6♂♂, 9♀♀, (Loc.2), 05.08.2007; 1♂, (Loc.13), 12.08.2007; 3♂♂, 18♀♀, (Loc.2), 18.08.2007; 5♂♂, 6♀♀, (Loc.2), 09.09.2007; 2♂♂, 1♀, (Loc.9), 21.05.2008. **Remarks:** New for Çorum.

*Sigara iactans* Jansson, 1983

**Material Examined:** 5♂♂, 16♀♀, (Loc.7), 04.08.2008; 1♀, (Loc.12), 04.08.2008. **Remarks:** New for Çorum.

***Corixa punctata* (Illiger, 1807)**

**Material Examined:** 1♀, (Loc.4), 03.06.2006; 1♀, (Loc.1), 03.06.2006; 1♂, 1♀, (Loc.2), 18.08.2007; 2♀♀, (Loc.10), 25.08.2007. **Remarks:** New for Çorum.

***Corixa affinis* Leach, 1817**

**Material Examined:** 1♂, 5♀♀, (Loc.2), 18.08.2007; 1♀, (Loc.5), 18.08.2007; 1♀, (Loc.10), 25.08.2007; 1♂, (Loc.2), 09.09.2007.

***Hesperocorixa paralella* (Fieber, 1860)**

**Material Examined:** 1♂, 20♀♀, (Loc.13), 12.08.2007.

***Micronecta griseola* Horvath, 1899**

**Material Examined:** 5 samples, (Loc.1), 03.06.2006; 3 samples, (Loc.8), 04.08.2008. **Remarks:** New for Çorum.

***Micronecta pusilla* (Horvath, 1895)**

**Material Examined:** 37 samples, (Loc.5), 05.08.2007; 8 samples, (Loc.7), 04.08.2008; 137 samples, (Loc.5), 18.08.2008. **Remarks:** New for Çorum.

**Family Naucoridae*****Ilyocoris cimicoides cimicoides* (Linnaeus, 1758)**

**Material Examined:** 1 nymph, (Loc.1), 03.06.2006; 3♂♂, 3♀♀, (Loc.14), 10.06.2006; 1♂, (Loc.14), 30.06.2006; 8♂♂, 1♀, (Loc.14), 10.07.2006; 1♂, 2♀♀, (Loc.6), 25.08.2007. **Remarks:** New for Çorum.

In nineteen different habitats of Çorum province, 15 species belonging to 5 families were recorded. Of these, *Nepa cinerea*, *Plea minutissima minutissima*, *Notonecta glauca glauca*, *Notonecta viridis*, *Notonecta maculata*, *Sigara striata*, *Sigara nigrolineata nigrolineata*, *Sigara iactans*, *Corixa punctata*, *Micronecta griseola*, *Micronecta pusilla*, *Ilyocoris cimicoides cimicoides* are new records for the nepomorphan fauna of Black Sea Region. Furthermore, 13 species are new record only for Çorum. Although the nepomorphan fauna of Turkey is now better known, more studies are required to better understand the overall distribution.

**LITERATURE CITED**

**Jansson, A.** 1986. The Corixidae (Heteroptera) of Europe and some adjacent region. *Annales Entomologici Fennici*, 52: 1-93.