

## ON HETEROPTERA FAUNA OF BİNBOĞA MOUNTAINS (TURKEY, KAHRAMANMARAŞ-KAYSERİ)

**Suat Kiyak\***

\* Gazi University, Faculty of Sciences, Department of Biology 06500, Ankara, TURKEY. E-mail: skiyak@gazi.edu.tr

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**ABSTRACT:** The paper presents information on Heteroptera fauna of Binboğa Mountains (Kahramanmaraş-Kayseri). For this reason, 805 specimens of 135 species were collected from Binboğa Mountains (Kahramanmaraş-Kayseri) between May and August in 1988-1989. 115 of them are new records for fauna of Binboğa Mountains (Kahramanmaraş-Kayseri).

**KEY WORDS:** Binboğa Mountains, fauna, Heteroptera, Turkey

Although Heteroptera is an essential group among the insect orders. Its numbers of species are an crucial component of aquatic and terrestrial food-chains. Heteropteran species are important members of these communities.

The current studies about faunistical, systematical and ecological state of knowledge in Binboğa Mountains are not sufficient. Until this study, just Horvath (1901) recorded 6 species from Binboğa Mountains.

The research area, Binboğa mountains, is located in the Southern Turkey, situated in two provinces (Kahramanmaraş-Kayseri). The main purpose of this study is to determine the composition of the heteroptera fauna on the research area. After having been collected, the Heteropteran specimens were identified and then the species were assessed according to systematic and faunistic concepts.

### MATERIALS AND METHODS

The available 805 adult specimens of 135 species were collected by the author from 59 localities (Table 1) in Binboğa Mountains between May and August in 1988-1989. All specimens were collected by means of aerial nets and were put into killing jars filled with 70% alcohol and then they were relaxed, and pinned.

For the identification of the material I used the keys to Heteroptera published by Ahmat & Perveen (1987), Aysev (1973, 1985, 1988, 1989), Awell (1977), Kerzner & Yachevskii (1964), Kiyak (1990a,b,c), Lodos & Önder (1980), Pehlivan (1981), Pericart (1979), Stichel (1955-1956, 1956-1958, 1958-1960, 1957-1962), Villiers (1945), Wachmann (1989) and Wagner (1970-1971, 1973, 1976, 1978).

Information on phenologies, altitudes and locality numbers of each species are given in Table 1. All materials are deposited in the collection of the Zoological Museum of Gazi University (=ZMGU), Ankara, Turkey.

Table 1. Collecting localities.

| Locality No | Locality area                            |
|-------------|--|
| Loc. 1      | Dayoluk village                          |
| Loc. 2      | Between Dayoluk village- Ördekli village |
| Loc. 3      | Dayoluk village                          |

|      |    |   |
|------|----|---|
| Loc. | 4  | Between Dayoluk village-Yalak (Yeşilkent) district              |
| Loc. | 5  | North-East of Yalak (Yeşilkent) district                        |
| Loc. | 6  | North-East of Yalak (Yeşilkent) district                        |
| Loc. | 7  | East of Yalak (Yeşilkent) district                              |
| Loc. | 8  | East of Yalak (Yeşilkent) district                              |
| Loc. | 9  | Artaş district, Hoda plateau, watery cave                       |
| Loc. | 10 | Artaş district, way of plateau                                  |
| Loc. | 11 | Artaş district, way of plateau                                  |
| Loc. | 12 | Artaş district, West of Gözübenli                               |
| Loc. | 13 | Artaş district, North of Gözübenli                              |
| Loc. | 14 | Artaş district, South of Gözübenli and North-West of Türkçayırı |
| Loc. | 15 | West of Binboğa village   |
| Loc. | 16 | West of Binboğa village, near of Tomas                          |
| Loc. | 17 | Binboğa village   |
| Loc. | 18 | South-West of Binboğa village                                   |
| Loc. | 19 | South of Binboğa village  |
| Loc. | 20 | South-East of Binboğa village                                   |
| Loc. | 21 | South of Binboğa village, West of Türksevin village             |
| Loc. | 22 | West of Türksevin village                                       |
| Loc. | 23 | North of Türksevin village                                      |
| Loc. | 24 | South-East of Dağlıca district, near of Yazıbelen castle        |
| Loc. | 25 | South-East of Dağlıca district, east of Yazıbelen castle        |
| Loc. | 26 | North-West of Artaş district, near of Göllüce                   |
| Loc. | 27 | North-West of Artaş district, Tavşan-hill                       |
| Loc. | 28 | North-West of Artaş district, Tavşan-hill                       |
| Loc. | 29 | North-West of Artaş district, north of Türkçayırı               |
| Loc. | 30 | West of Artaş district  |
| Loc. | 31 | South of Küçüksevin village                                     |
| Loc. | 32 | South-West of Emirilvas village                                 |
| Loc. | 33 | North-East of Türksevin village                                 |
| Loc. | 34 | East of Türksevin village                                       |
| Loc. | 35 | South-West of Büyüksevin village, West of Kızılkaya village     |
| Loc. | 36 | Afşin district  |
| Loc. | 37 | West of Ardıçlı- hill   |
| Loc. | 38 | West of Ardıçlı- hill   |
| Loc. | 39 | Ardıçlı-hill  |
| Loc. | 40 | South-West of Ardıçlı hill                                      |
| Loc. | 41 | South-West of Ardıçlı hill                                      |
| Loc. | 42 | South of Ardıçlı hill   |
| Loc. | 43 | North-West of Küçüksu village                                   |
| Loc. | 44 | North-East of Küçüksu village                                   |
| Loc. | 45 | Küçüksu village   |

|      |    |   |
|------|----|---|
| Loc. | 46 | Taşkesen village  |
| Loc. | 47 | West of Afşin district, Ufacıklar-hill, near of Ashabı Kehf |
| Loc. | 48 | North of Yazıköy village                                    |
| Loc. | 49 | Yazıköy village   |
| Loc. | 50 | Tülüce hill   |
| Loc. | 51 | South of Tülüce hill  |
| Loc. | 52 | South-East of Tülüce hill                                   |
| Loc. | 53 | North of Korkmaz village                                    |
| Loc. | 54 | North of Çardak village                                     |
| Loc. | 55 | South of Korkmaz village                                    |
| Loc. | 56 | South-East of Korkmaz village                               |
| Loc. | 57 | South-East of Korkmaz village                               |
| Loc. | 58 | South Korkmaz village                                       |
| Loc. | 59 | South of Çardak village                                     |

## RESULTS

Data on Heteroptera fauna of Binboğa Mountains are presented in Table 2 as follows:

Table 2. The phenologies, altitudes and locality numbers of Heteroptera specimens from Binboğa Mountains.

| Species                                     | Phenology | Altitude    | Locality numbers                      |
|---|-----------|-------------|---------------------------------------|
| <b>MIRIDAE Hahn, 1831</b>                   |           |             |                                       |
| <b><i>Deraeocoris</i> Kirschbaum, 1855</b>  |           |             |                                       |
| <i>D. rutilus</i> (Herrich-Schaeffer, 1839) | May, June | 1180-1680 m | 17, 20, 22, 27, 32-34, 41, 42, 44, 45 |
| <b><i>Cranocapsus</i> Wagner, 1954</b>      |           |             |                                       |
| <i>C. turcicus</i> Kıyak, 1990              | July      | 1220 m      | 45                                    |
| <b><i>Sthenarus</i> Fieber, 1858</b>        |           |             |                                       |
| <i>S. ocellaris</i> (Mulsant & Rey, 1852)   | May       | 1220 m      | 42                                    |
| <b><i>Chlamydatus</i> Curtis, 1833</b>      |           |             |                                       |
| <i>C. pullus</i> (Reuter, 1870)             | May       | 1220 m      | 42                                    |
| <b><i>Oncotylus</i> Fieber, 1858</b>        |           |             |                                       |
| <i>O. viridiflavus</i> (Goeze, 1778)        | August    | 1500-1550 m | 3, 4, 5                               |
| <b><i>Eurycolpus</i> Reuter, 1879</b>       |           |             |                                       |
| <i>E. aureolus</i> Seidenstücker, 1961      | June      | 1410 m      | 27                                    |
| <b><i>Piezocranum</i> Horvath, 1877</b>     |           |             |                                       |
| <i>P. corvinum</i> Puton, 1895              | May       | 1250 m      | 44                                    |
| <b><i>Orthocephalus</i> Fieber, 1858</b>    |           |             |                                       |
| <i>O. melas</i> Seidenstücker, 1962         | June      | 2100 m      | 10                                    |
| <i>O. tenuicornis</i> (Mulsant & Rey, 1852) | May       | 1290 m      | 41                                    |
| <b><i>Plagiolytus</i> Scott, 1874</b>       |           |             |                                       |
| <i>P. dispar</i> Reuter, 1899               | June      | 1390 m      | 13                                    |
| <b><i>Camponotidea</i> Reuter, 1879</b>     |           |             |                                       |
| <i>C. saundersi</i> (Puton, 1874)           | May       | 1290 m      | 38                                    |
| <i>C. fieberi</i> Reuter, 1879              | May       | 1250 m      | 41                                    |

|   |               |             |                                       |
|---|---------------|-------------|---------------------------------------|
| <b>Adelphocoris Reuter, 1896</b>                  |               |             |                                       |
| <i>A. vandalicus</i> (Rossi, 1790)                | July, August  | 1220-1290 m | 45, 54                                |
| <i>A. bimaculicollis</i> Lindberg, 1948           | August        | 1600 m      | 26                                    |
| <i>A. lineolatus</i> (Goeze, 1778)                | July          | 1220 m.     | 45                                    |
| <b>Calocoris Fieber, 1858</b>                     |               |             |                                       |
| <i>C. quadripunctatus</i> (Villers, 1789)         | May           | 1260-1350 m | 39, 49                                |
| <i>C. norvegicus</i> (Gmelin, 1788)               | May, June     | 1250-1480 m | 33, 40                                |
| <i>C. roseomaculatus</i> (Degeer, 1773)           | May, June     | 1250-1400 m | 33, 40                                |
| <b>Grypocoris Douglas &amp; Scott, 1868</b>       |               |             |                                       |
| <i>G. fieberi</i> Douglas & Scott, 1868           | May-July      | 1260-1680 m | 9, 20, 22, 39, 57                     |
| <i>G. amoenus</i> (Douglas & Scott, 1868)         | May           | 1550 m      | 46                                    |
| <b>Brachycoelus Fieber, 1858</b>                  |               |             |                                       |
| <i>Brachycoelus</i> sp.                           | June          | 1400-1680 m | 16, 17, 20, 22, 23, 33                |
| <b>Liocoris Fieber, 1858</b>                      |               |             |                                       |
| <i>L. tripustulatus</i> (Fabricius, 1781)         | June          | 1390 m      | 13                                    |
| <b>Exolygus Wagner, 1949</b>                      |               |             |                                       |
| <i>E. rugulipennis</i> Poppius, 1911              | August        | 1410 m      | 28                                    |
| <i>E. pratensis</i> (Linnaeus, 1758)              | July          | 1220 m      | 45                                    |
| <i>E. gemellatus</i> (Herrich-Schaeffer, 1835)    | August        | 1410 m      | 28                                    |
| <b>Charagochilus Fieber, 1858</b>                 |               |             |                                       |
| <i>C. gyllenhali</i> (Fallen, 1807)               | August        | 1510 m      | 7                                     |
| <b>Capsodes Dahlbom, 1850</b>                     |               |             |                                       |
| <i>C. bimaculatus</i> (Jakowlew, 1883)            | May, June     | 1180-1740 m | 14, 15, 17, 20, 22, 23, 27, 32, 46    |
| <b>ANTHOCORIDAE Amyot &amp; Serville, 1843</b>    |               |             |                                       |
| <b>Anthocoris Fallen, 1814</b>                    |               |             |                                       |
| <i>A. pilosus</i> (Jakowlew, 1877)                | June          | 1560 m      | 13                                    |
| <b>Orius Wolff, 1811</b>                          |               |             |                                       |
| <i>O. laticollis</i> (Reuter, 1884)               | June          | 1160 m      | 32                                    |
| <b>REDUVIIDAE Latreille, 1807</b>                 |               |             |                                       |
| <b>Nagusta Stal 1859</b>                          |               |             |                                       |
| <i>Nagusta</i> sp.                                | August        | 1500 m      | 13                                    |
| <b>Rhynocoris Hahn 1833</b>                       |               |             |                                       |
| <i>R. Ibericus</i> (Kolenati, 1856)               | August        | 1500-1610 m | 55                                    |
| <i>R. punctiventris</i> (Herrich-Schaeffer, 1846) | May to August | 1220-1500 m | 27, 28, 40, 42, 44, 45                |
| <b>Sphedanolestes Stal, 1866</b>                  |               |             |                                       |
| <i>S. pulchellus</i> (Klug, 1830)                 | May           | 1300 m      | 41                                    |
| <b>Oncocephalus Klug, 1830</b>                    |               |             |                                       |
| <i>O. squalidus</i> (Rossi, 1790)                 | June          | 1320 m      | 28                                    |
| <b>Holotrichius Burmeister, 1835</b>              |               |             |                                       |
| <i>H. denudatus</i> Costa, 1841                   | June          | 14560 m     | 23                                    |
| <b>Reduvius Fabricius, 1775</b>                   |               |             |                                       |
| <i>R. pallipes</i> (Klug, 1830)                   | August        | 1480 m      | 56                                    |
| <b>NABIDAE Costa, 1855</b>                        |               |             |                                       |
| <b>Nabis Latreille, 1802</b>                      |               |             |                                       |
| <i>N. apterus</i> (Fabricius, 1798)               | May, June     | 1550-2000 m | 11, 46                                |
| <i>N. capsiformis</i> Germar, 1837                | July          | 1220 m      | 45                                    |
| <i>N. viridis</i> Brulle, 1835                    | July          | 1220 m      | 44                                    |
| <i>Nabis</i> sp.                                  | May to August | 1160-1800 m | 5, 14, 19, 28, 29, 32, 34, 38, 44, 45 |
|   |               |             |                                       |

| <b>SALDIDAE Costa, 1855</b>                             |                   |             |  |
|---|-------------------|-------------|--|
| <b><i>Saldula</i> Van Duzee, 1914</b>                   |                   |             |  |
| <i>S. variabilis</i> (Herrich-Schaeffer, 1835)          | June              | 188m        | 19   |
| <b>TINGIDAE Costa, 1847</b>                             |                   |             |  |
| <b><i>Elasmotropis</i> Stal, 1874</b>                   |                   |             |  |
| <i>E. testacea</i> (Herrich-Schaeffer, 1830)            | May               | 1220 m      | 40, 44                                     |
| <b><i>Copium</i> Thunberg, 1822</b>                     |                   |             |  |
| <i>C. teucrui</i> (Host, 1788)                          | August            | 1460-1690 m | 13, 27                                     |
| <b><i>Catoplatus</i> Spinola, 1837</b>                  |                   |             |  |
| <i>C. hilaris</i> Horvath, 1906                         | August            | 1490 m      | 13   |
| <b><i>Dictyla</i> Stal, 1874</b>                        |                   |             |  |
| <i>D. nassata</i> (Puton, 1874)                         | May               | 1550 m      | 46   |
| <b>BERYTIDAE Fieber, 1851</b>                           |                   |             |  |
| <b><i>Neides</i> Latreille, 1804</b>                    |                   |             |  |
| <i>N. tipularis</i> (Linnaeus, 1758)                    | May, August       | 1350-1500 m | 5, 28, 29, 38                              |
| <i>N. brevipennis</i> Puton, 1895                       | May, August       | 1450-1550 m | 29, 46, 55                                 |
| <i>Neides</i> sp.                                       | May               | 1550 m      | 46   |
| <b><i>Berytinus</i> Kirkaldy, 1900</b>                  |                   |             |  |
| <i>B. geniculatus</i> (Horvath, 1885)                   | August            | 1550 m      | 46   |
| <b>LYGAEIDAE Schilling, 1829</b>                        |                   |             |  |
| <b><i>Lygaeus</i> Fabricius, 1794</b>                   |                   |             |  |
| <i>L. saxatilis</i> (Scopoli, 1763)                     | May, June, August | 1400-1750 m | 27, 30, 48, 50-52, 58,                     |
| <i>L. pandurus</i> (Scopoli, 1763)                      | June              | 1160-2600 m | 11, 15, 18, 22, 32                         |
| <i>L. equestris</i> (Linnaeus, 1758)                    | May to August     | 1220-2100 m | 10, 13, 17, 27, 37, 38, 42, 43, 45, 48, 50 |
| <b><i>Apterola</i> Mulsant &amp; Rey, 1866</b>          |                   |             |  |
| <i>Apterola</i> sp.                                     | August            | 1550 m      | 55   |
| <b><i>Nysius</i> Dallas, 1852</b>                       |                   |             |  |
| <i>N. ericae</i> (Schilling, 1829)                      | May, June         | 1350-1800 m | 16, 33, 38                                 |
| <b><i>Engistus</i> Fieber, 1864</b>                     |                   |             |  |
| <i>Engistus</i> sp.                                     | August            | 1480 m      | 14   |
| <b><i>Picocoris</i> Stal, 1872</b>                      |                   |             |  |
| <i>P. erythrocephalus</i> (LePeletier & Serville, 1825) | August            | 1400 m      | 30   |
| <b><i>Geocoris</i> Fallen, 1814</b>                     |                   |             |  |
| <i>G. pubescens</i> Jakowlew, 1871                      | August            | 1460 m      | 27   |
| <b><i>Heterogaster</i> Schilling, 1829</b>              |                   |             |  |
| <i>H. urticae</i> (Fabricius, 1775)                     | June              | 1160-1390 m | 13, 36                                     |
| <b><i>Camptotelus</i> Fieber, 1860</b>                  |                   |             |  |
| <i>Camptotelus</i> sp.                                  | May               | 1350 m      | 38   |
| <b><i>Microplax</i> Fieber, 1860</b>                    |                   |             |  |
| <i>M. interruptus</i> (Fieber, 1837)                    | May               | 1350 m      | 37   |
| <b><i>Oxycarenus</i> Fieber, 1837</b>                   |                   |             |  |
| <i>Oxycarenus</i> sp.                                   | August            | 1460 m      | 28   |
| <b><i>Macroplax</i> Fieber, 1860</b>                    |                   |             |  |
| <i>M. fasciata</i> (Herrich-Schaeffer, 1835)            | May               | 1350 m      | 37   |
| <b><i>Lethaeus</i> Dallas, 1852</b>                     |                   |             |  |
| <i>L. picipes</i> (Herrich-Schaeffer, 1850)             | August            | 2000 m      | 8  |
| <i>L. fulvovarius</i> Puton, 1884                       | August            | 1540-2000 m | 8, 21                                      |
| <b><i>Ischnopeza</i> Fieber, 1860</b>                   |                   |             |  |
| <i>I. hirticornis</i> (Herrich-Schaeffer, 1860)         | August            | 1440 m      | 27   |
| <i>Ischnopeza</i> sp.                                   | June              | 1180 m      | 32   |

|  |                   |             |                        |
|--|-------------------|-------------|------------------------|
| <b>Emblethis Fieber, 1860</b>                          |                   |             |                        |
| <i>E. brachynotus</i> Horvath, 1897                    | August            | 1440 m      | 28                     |
| <i>Emblethis</i> sp.                                   | August            | 1440 m      | 27                     |
| <b>Gonianotus Fieber, 1860</b>                         |                   |             |                        |
| <i>Gonianotus</i> sp.                                  | May               | 1220 m      | 42                     |
| <b>Diomphalus Fieber, 1864</b>                         |                   |             |                        |
| <i>Diomphalus</i> sp.                                  | August            | 1440 m      | 27                     |
| <b>Aphanus Laporte de Castelnau, 1852</b>              |                   |             |                        |
| <i>A. rolandri</i> (Linnaeus, 1758)                    | August            | 1440 m      | 27                     |
| <b>Proderus Amyot, 1846</b>                            |                   |             |                        |
| <i>P. crassicornis</i> Jakowlew, 1875                  | June              | 1180 m      | 32                     |
| <b>Rhyparachromus Hahn, 1826</b>                       |                   |             |                        |
| <i>R. zarudnyi</i> (Jakowlew, 1905)                    | August            | 1740 m      | 27                     |
| <i>R. alboacuminatus</i> (Goeze, 1778)                 | August            | 1470 m      | 27                     |
| <i>Rhyparachromus</i> sp.                              | August            | 1480 m      | 13                     |
| <b>PYRRHOCORIDAE Dohrn, 1859</b>                       |                   |             |                        |
| <b><i>Pyrrhocoris</i> Fallen, 1814</b>                 |                   |             |                        |
| <i>P. apterus</i> (Linnaeus, 1758)                     | May-August        | 1220-1550 m | 5, 13, 44, 45          |
| <b>STENOCEPHALIDAE Dallas, 1852</b>                    |                   |             |                        |
| <b><i>Dicronacephalus</i> Hahn, 1826</b>               |                   |             |                        |
| <i>D. agilis</i> (Scopoli, 1765)                       | June              | 1930 m      | 21                     |
| <i>D. albipes</i> (Fabricius, 1781)                    | August            | 1500 m      | 56                     |
| <b>COREIDAE Leach, 1815</b>                            |                   |             |                        |
| <b><i>Syromastus</i> Berthelod, 1827</b>               |                   |             |                        |
| <i>S. rhombeus</i> Linnaeus, 1767                      | June              | 1800 m      | 16                     |
| <b><i>Haploprocta</i> Stal, 1872</b>                   |                   |             |                        |
| <i>H. sulcicornis</i> (Fabricius, 1794)                | June              | 1740 m      | 18                     |
| <b><i>Enoplos</i> Amyot &amp; Serville, 1843</b>       |                   |             |                        |
| <i>E. disciger</i> (Kolenati, 1845)                    | August            | 1500-1520 m | 1, 5                   |
| <b><i>Coreus</i> Fabricius, 1794</b>                   |                   |             |                        |
| <i>C. marginatus</i> (Linnaeus, 1758)                  | June              | 1390 m      | 13                     |
| <b><i>Centrocoris</i> Kolenati, 1845</b>               |                   |             |                        |
| <i>C. variegatus</i> Kolenati, 1845                    | May               | 1290 m      | 38                     |
| <b><i>Phyllomorphus</i> Laporte de Castelnau, 1832</b> |                   |             |                        |
| <i>P. laciniata</i> (Villers, 1789)                    | May, June, August | 1320-1750 m | 19, 27, 28, 39, 50, 51 |
| <b><i>Arenocoris</i> Hahn, 1834</b>                    |                   |             |                        |
| <i>A. falleni</i> (Schilling, 1829)                    | August            | 1570 m      | 50                     |
| <i>A. waltli</i> (Herrich-Schaeffer, 1834)             | August            | 1460 m      | 28                     |
| <b><i>Bathysolen</i> Fieber, 1860</b>                  |                   |             |                        |
| <i>B. nubilus</i> (Fallen, 1807)                       | May               | 1220 m      | 44                     |
| <b><i>Coriomeris</i> Westwood, 1842</b>                |                   |             |                        |
| <i>Coriomeris</i> sp.                                  | May, June, August | 1160-1420 m | 27, 32, 42             |
| <b>ALYDIDAE Dallas, 1852</b>                           |                   |             |                        |
| <b><i>Alydus</i> Fabricius, 1803</b>                   |                   |             |                        |
| <i>A. calcaratus</i> (Linnaeus, 1758)                  | July              | 1220 m      | 45                     |
| <b><i>Camptopus</i> Amyot &amp; Serville, 1843</b>     |                   |             |                        |
| <i>C. tragacanthae</i> (Kolenati, 1845)                | July, August      | 1220-1780 m | 2, 28, 45, 52          |
| <i>C. lateralis</i> (Germar, 1843)                     | July, August      | 1230-1430 m | 27, 45                 |
| <i>C. bifasciatis</i> Fieber, 1864                     | June, August      | 1400-1500 m | 34, 55                 |
| <b>RHOPALIDAE Amyot &amp; Serville, 1843</b>           |                   |             |                        |
| <b><i>Corizus</i> Fallen, 1814</b>                     |                   |             |                        |

|  |                      |             |  |
|--|----------------------|-------------|--|
| <i>C. hyosциami</i> (Linnaeus, 1758)           | May-August           | 1220-1730 m | 5, 13, 20, 21,<br>27, 28, 37,<br>40, 45, 51,<br>54 |
| <i>Coryzus</i> sp.                             | August               | 1400 m      | 27   |
| <b>Liorhyssus Stal, 1870</b>                   |                      |             |  |
| <i>L. hyalinus</i> (Fabricius, 1794)           | May, June,<br>August | 1260-1800 m | 16, 17, 20,<br>23, 28, 38,<br>40, 49               |
| <b>Rhopalus Schilling, 1827</b>                |                      |             |  |
| <i>R. parumpunctatus</i> Schilling, 1829       | August               | 1420 m      | 27   |
| <i>R. rufus</i> Schilling, 1829                | May, June            | 1350-1800 m | 16, 37   |
| <b>Brachycarenum Fieber, 1860</b>              |                      |             |  |
| <i>B. tigrinus</i> (Schilling, 1829)           | August               | 1470 m      | 29   |
| <i>B. languidus</i> (Horvath, 1891)            | June,<br>August      | 1470-1800 m | 16, 29   |
| <b>Stictopleurus Stal, 1872</b>                |                      |             |  |
| <i>S. abutilon</i> (Rossi, 1790)               | August               | 1370-1500 m | 27, 28, 54   |
| <i>S. riveti</i> Royer, 1923                   | August               | 1450 m      | 28   |
| <b>Maccevetus Amyot, 1846</b>                  |                      |             |  |
| <i>M. lutheri</i> Wagner, 1953                 | June                 | 1550 m      | 14   |
| <i>M. caucasicus</i> (Kolenati, 1845)          | May, June,<br>August | 1280-1750 m | 17, 20, 25,<br>41, 51                              |
| <i>Maccevetus</i> sp.                          | May, August          | 1250-1430 m | 28, 39, 40   |
| <b>SCUTELLERIDAE Leach, 1815</b>               |                      |             |  |
| <b>Odontotarsus Laporte de Castelnau, 1832</b> |                      |             |  |
| <i>O. purpureo-lineatus</i> (Rossi, 1790)      | June                 | 1540-1650 m | 14, 20-22  |
| <i>O. impictus</i> Jakowlew, 1886              | May                  | 1290 m      | 42   |
| <i>O. confraginosus</i> Hoberlandt, 1956       | August               | 1410 m      | 27   |
| <b>Psacasta Germar, 1839</b>                   |                      |             |  |
| <i>P. marmottani</i> Puton, 1887               | May, June            | 1250-1300 m | 43, 45   |
| <i>P. herculeana</i> Horvath, 1891             | May                  | 1300 m      | 43   |
| <b>Eurygaster Laporte de Castelnau, 1832</b>   |                      |             |  |
| <i>E. maura</i> (Linnaeus, 1758)               | May                  | 1320 m.     | 38   |
| <i>E. tesudinaria</i> (Geoffroy, 1785)         | May                  | 1260 m      | 41   |
| <b>PENTATOMIDAE Leach, 1815</b>                |                      |             |  |
| <b>Crypsinus Dohrn, 1860</b>                   |                      |             |  |
| <i>Crypsinus</i> sp.                           | August               | 1460 m      | 27   |
| <b>Leprosoma Baerensprung, 1859</b>            |                      |             |  |
| <i>L. tuberculatum</i> Jakowlew, 1876          | June                 | 1220 m      | 45   |
| <b>Ventocoris Hahn, 1834</b>                   |                      |             |  |
| <i>V. trigonus</i> (Krynicky, 1871)            | August               | 1470-1510 m | 6, 27, 55  |
| <b>Graphosoma Laporte de Castelnau, 1832</b>   |                      |             |  |
| <i>G. lineatum</i> (Linnaeus, 1758)            | June                 | 1930 m      | 21   |
| <b>Mustha Amyot &amp; Serville, 1843</b>       |                      |             |  |
| <i>M. spinosula</i> (Lefebvre, 1831)           | May, June,<br>August | 1250-1500 m | 27, 40, 55   |
| <b>Sciocoris Fallen, 1829</b>                  |                      |             |  |
| <i>S. sulcatus</i> Fieber, 1852                | May                  | 1320 m      | 38   |
| <b>Aelia Fabricius, 1803</b>                   |                      |             |  |
| <i>A. cognata</i> Fieber, 1868                 | August               | 1430-1810 m | 14, 50, 58   |
| <i>A. albobittata</i> Fieber, 1868             | May, July            | 1220-1320 m | 38, 45, 48   |
| <i>A. virgata</i> Klug, 1841                   | June                 | 1550 m      | 20   |
| <b>Cnephosa Jakowlew, 1880</b>                 |                      |             |  |
| <i>C. flavomarginata</i> Jakowlew, 1880        | May                  | 1220 m      | 42   |
| <b>Palomena Mulsant &amp; Rey, 1866</b>        |                      |             |  |

|  |                       |             |   |
|--|-----------------------|-------------|---|
| <i>P. prasina</i> (Linnaeus, 1761)               | August                | 1780 m      | 1   |
| <b>Rhombocoris Mayr, 1864</b>                    |                       |             |   |
| <i>Rhombocoris</i> sp.                           | June                  | 1930 m      | 18  |
| <b>Carpocoris Kolenati, 1846</b>                 |                       |             |   |
| <i>C. mediterraneus</i> Tamanini, 1958           | June,<br>August       | 1300-1500 m | 3, 27, 35, 55   |
| <i>C. fuscispinus</i> (Boheman, 1851)            | June,<br>August       | 1410-1680 m | 3, 13, 20, 22,<br>28  |
| <i>C. pudicus</i> (Poda, 1761)                   | June, July,<br>August | 1300-1700 m | 13, 50, 52,<br>55, 56   |
| <i>C. melanocerus</i> (Mulsant & Rey, 1852)      | May                   | 1250-1300 m | 38, 42, 44  |
| <b>Codophila Mulsant &amp; Rey, 1866</b>         |                       |             |   |
| <i>C. varia</i> (Fabricius, 1787)                | August                | 1640 m      | 50  |
| <b>Dolycoris Mulsant &amp; Rey, 1866</b>         |                       |             |   |
| <i>D. baccarum</i> (Linnaeus, 1758)              | May, June,<br>August  | 1180-1790 m | 2, 5, 14, 17,<br>19-23, 32,<br>34, 37, 40,<br>42, 50, 54,<br>58 |
| <b>Trochiscocoris Reuter, 1890</b>               |                       |             |   |
| <i>Trochiscocoris</i> sp.                        | June                  | 1420 m      | 14  |
| <b>Eurydema Laporte, 1832</b>                    |                       |             |   |
| <i>E. ventrale</i> Kolenati, 1846                | August                | 1750 m      | 50  |
| <i>E. formosum</i> Puton, 1895                   | May                   | 1220-1290 m | 42, 43  |
| <b>Rhaphigaster Laporte de Castelnau, 1832</b>   |                       |             |   |
| <i>R. nebulosa</i> (Poda, 1761)                  | June                  | 1290 m      | 43  |
| <b>CYDNIDAE Mulsant &amp; Rey, 1866</b>          |                       |             |   |
| <b>Canthophorus Mulsant &amp; Rey, 1866</b>      |                       |             |   |
| <i>C. melanopterus</i> (Herrich-Schaeffer, 1835) | June, July,<br>August | 1430-2130 m | 9, 27, 47   |
| <b>PLATASPIDAE Dallas, 1851</b>                  |                       |             |   |
| <b>Coptosoma Laporte de Castelnau, 1832</b>      |                       |             |   |
| <i>C. scutellatum</i> (Geoffroy, 1785)           | August                | 1480 m      | 9   |

## DISCUSSION

Heteroptera fauna of Binboğa mountains are listed for the first time with the present study. Heteroptera species records were not observed from Binboğa Mountains, except for Horvath (1901). He reported only 6 species from the Binboğa Mountains as *Coptosoma scutellatum*, *Adelphocoris vandalicus*, *Sehirus dubius*, *Neottiglossa leporina*, *Nabis ferus* and *Harpactor monticola* (= *Rhynocoris monticola*). In this study, two of them were collected (*Coptosoma scutellatum* and *Adelphocoris vandalicus*).

Unfortunately, 18 of 135 species group taxa are genus-level identification. 115 of 135 species in this study are new records for the studied area.

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