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Taxonomic Paper

Inventory of the Heteroptera (Insecta: Hemiptera) in Komaba Campus of the University of Tokyo, a highly urbanized area in Japan

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Abstract

Background

The Heteroptera, or true bugs, forms one of the major insect groups with respect to the very diverse habitat preferences, including both aquatic and terrestrial species, as well as a variety of feeding types. The first comprehensive inventory of the Heteroptera at Komaba Campus of the University of Tokyo, or an urban green space in the center of the Tokyo Metropolis, Japan, was conducted.

New information

A total of 115 species in 29 families of the suborder Heteroptera were identified. The area had a high species richness compared with other urbanized and suburbanized localities in Tokyo. The campus is found to show a substantial difference in heteropteran species

compositions, despite being close to the other localities surrounded by highly urbanized zones in central Tokyo.

Keywords

Arthropoda, assemblage, biodiversity information, true bugs, urban green space

Introduction

Although central part of the Tokyo Metropolis is a highly urbanized area, it contains several large green spaces for landscaping, such as the Imperial Palace and Meiji Jingu (Shinto Shrine), where well-preserved and managed vegetation is present (Tomokuni et al. 2000, Ishikawa and Hayashi 2013). For some of these spaces, intensive inventories on various animal groups have been conducted over the last two decades; these efforts evidently suggest substantially high species diversity even in the highly urbanized zones.

The hemipteran suborder Heteroptera (true bugs) is one of the major insect groups with respect to the habitat preferences, including aquatic, semi-aquatic, and terrestrial species with a variety of feeding types represented by varying degrees of herbivory, predation (including sucking vertebrate blood), mycophagy, and polyphagy (Schuh and Slater 1995). Due to the high habitat diversity and the relatively high environment specificity, heteropterans can be a useful bio-indicator of various environmental parameters, such as habitat structure and vegetation coverage.

The approximately 1,300 known heteropteran species of Japan are estimated to represent more than 80% of the possible total number of species (Hayashi and Miyamoto 2005, Ishikawa et al. 2012). Of these, 348 species have been recorded in the administrative districts of Tokyo from coastal plains to mountainous regions (excluding islands belonging to the metropolis), and approximately 30% of the 348 species have been found in central Tokyo (Ito et al. 2014). In faunal investigations of green spaces, 133 species have been detected at the Imperial Palace (Tomokuni et al. 2000, Tomokuni 2006) and 83 at the Meiji Jingu (Ishikawa and Hayashi 2013); these results evidently suggest that the fauna has been maintained by the diverse and well-preserved vegetation even in the highly urbanized zones. However, little is known about the fauna of relatively small green spaces, such as university campuses, parks and/or gardens.

Komaba Campus of the University of Tokyo provides the comparatively small green spaces surrounded by a highly urbanized zones in central Tokyo. Within the campus, appropriately maintained forests, shrubs and grasslands fill spaces among a number of buildings and athletic fields. Recently, two remarkable true bug species were found from broadleaf angiosperms in this campus; one was reported as a new species (Yasunaga et al. 2013) and the other as a true bug that was rediscovered after being undetected for 59 years (Ishikawa et al. 2014). Both belong to the plant bug family Miridae of the Heteroptera. These findings clearly demonstrate that further inventory surveys in such green spaces

remaining in central Tokyo as Komaba Campus (apparently much smaller than the Imperial Palace or Meiji Jingu), are required. However, any comprehensive evaluation on the campus fauna or the local biodiversity of the Heteroptera is yet to be carried out.

The present paper documents the first comprehensive inventory for the heteropteran fauna in the Komaba Campus, which represents a model case of extensive research on the fauna of small green spaces in central Tokyo. We also discuss the characteristics of the heteropteran fauna on the campus in comparison with those exhibited in other urbanized or suburbanized localities in Tokyo.

Materials and methods

Study site

This research was carried out at Komaba Campus (35.66006N 139.68521E; at an altitude of approximately 35 m above sea level) of the University of Tokyo, Meguro City, Tokyo, Japan, which is situated within the center of Tokyo and surrounded by highly urbanized environments including residential quarters and business complexes (Figs 1, 2). The total site area of the campus is 25.4 ha, within which approximately 50 buildings, four athletic fields, and a few artificial pools are present. The study site was located in a warm-temperate climate zone and had an annual mean temperature of 15.4 °C and annual mean precipitation of 1,528.8 mm (Japan Meteorological Agency 2014). The vegetation is generally mosaic and characterized by various species of herbs as well as deciduous/evergreen and broadleaf/coniferous trees (Figs 2, 3, 4, 5, 6).

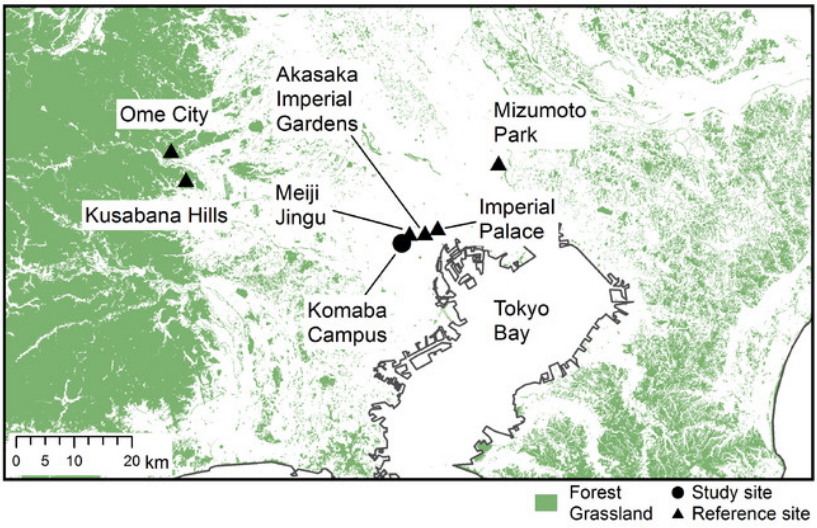

Figure 1.

Locations of the Komaba Campus and six reference sites in Tokyo, Japan.

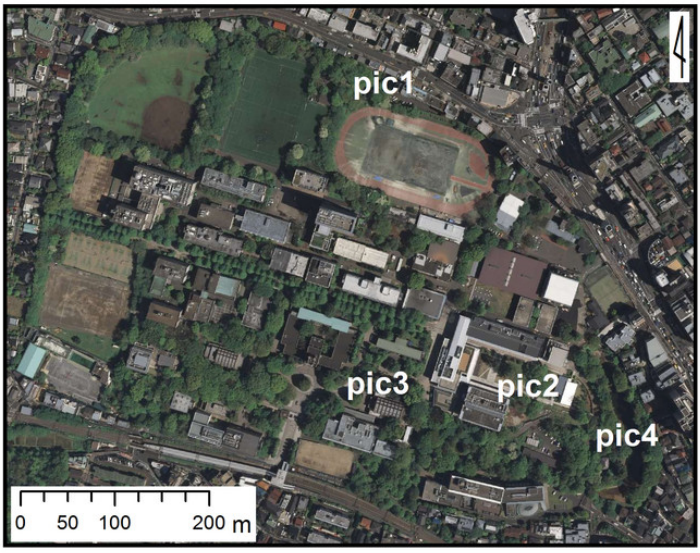

Figure 2.

The aerial photograph of the Komaba Campus (taken in 2009 by the Geospatial Information Authority of Japan).

Figure 3.

An example of a campus sampling point, indicating as "pic1" in Fig. 2.

Figure 4.

An example of a campus sampling point, indicating as "pic2" in Fig. 2.

Figure 5.

An example of a campus sampling point, indicating as "pic3" in Fig. 2.

Figure 6.

An example of a campus sampling point, indicating as "pic4" in Fig. 2.

Sampling methods

All specimens were collected by our research group (TI, MUS, KKY, and TK) using the following methods: net sweeping (including visual searches), UV light trap (using a high-intensity discharge lamp), and Tullgren funnels. The net sweeping method was used 41 times from April 2013 to May 2014 for a maximum of two hours per day in the daytime. The light trap method was carried out eight times from May 2013 to February 2014 for 1–1.5 hours per day shortly after sunset. Insects collected by the net sweeping and light trap methods were killed with ethyl acetate soon after capture. Sampling of the leaf litter fauna was carried out on November 28, 2013. Shortly after sampling, the leaf litter heteropterans were extracted from the sample by using Tullgren funnels, and fixed in plastic bottles filled with 60–70% ethanol. The extraction period was two days. All specimens were dried at room temperature and mounted for morphological examination.

Identification methods

Species identification and the determination of postembryonic developmental stage and sex were performed under a stereoscopic microscope (Olympus SZ61, Tokyo, Japan) by TI, using Ishikawa et al. (2012), Hayashi and Miyamoto (2005), Yasunaga et al. (1993), and Yasunaga et al. (2001) as primary references, together with the original descriptions and/or redescriptions of each species, as necessary. For accurate identification, observations of the genitalia, if needed, were made under the stereoscopic microscope and an optical microscope (Olympus BX41) after dissection. The genitalia were preserved in small plastic tubes containing glycerin and mounted on pins with their respective

specimens. All specimens examined are preserved in the Insect Collection (IC) at the Komaba Museum, the University of Tokyo, Meguro City, Tokyo, Japan (KMUT). Classification and nomenclature of taxa follow Aukema and Rieger (1995), Aukema and Rieger (1996), Aukema and Rieger (1999), Aukema and Rieger (2001), Aukema and Rieger (2006) and Aukema et al. (2012), and the family level classification within the superfamily Lygaeoidea follows Henry (1997). The arrangement of higher taxa from infraorder to family follows Ishikawa et al. (2012) and is in alphabetical order within families.

Data analysis

The similarities in species composition (occurrence or absence) were examined using a similarity index, Jaccard distances of assemblage, for the Komaba Campus and six localities in Tokyo as reference sites (Table 1). Based on the Jaccard distances, the species compositions were compared among sites by cluster analysis with group averaging. These analyses were conducted using the ‘vegdist’ function in the ‘vegan 2.0-9’ package and ‘hclust’ function in the ‘stats 3.0.2’ package implemented in the R 3.0.2 software environment (R Core Team 2013).

Table 1.

Detailed characteristics of each reference site. All sites are situated in Tokyo (see Fig. 1).

Locality	Site area (ha)	Environment aspect	Number of species	Reference (for number of species)
Meiji Jingu	70	highly urbanized	83	Ishikawa and Hayashi (2013)
Akasaka Imperial Gardens	51	highly urbanized	80	Tomokuni (2005), Tomokuni (2006)
Imperial Palace	115	highly urbanized	133	Tomokuni et al. (2000), Tomokuni (2006)
Mizumoto Park	94	moderately urbanized	96	Tago (2006)
Kusabana Hills	2200	suburbanized	81	Kubota (1995)
Ome City	10000	suburbanized	90	Ome Municipal Museum of Provincial History (1982)

Data resources

In this study, a total of 1,541 specimens were collected and 115 species in 29 families of Heteroptera were detected on the Komaba Campus. Of these specimens, 1,451 individuals were captured by net sweeping, 75 individuals by light traps, and 15 individuals by Tullgren funnels (Table 2). Four species, *Hydrometra procera* Horváth, *Physopleurella armata* Poppius, *Botocudo japonicus* (Hidaka) and *Stigmatonotum geniculatum* (Motschulsky),

were obtained using light traps only, and two species, *Stenopirates japonicus* (Esaki) and *Chilocoris confusus* Horváth by Tullgren funnels only. Five species were identified to have been introduced to Japan from abroad, *Campyloneura virgula* (Herrich-Schäffer) (Yasunaga and Yamada 2014), *Corythucha ciliata* (Say) (Tokihiro et al. 2003), *Corythucha marmorata* (Uhler) (Tomokuni 2002), *Dulinius conchatus* Distant (Tomokuni and Saito 1998), and *Leptoglossus occidentalis* Heidemann (Ishikawa and Kikuhara 2009). These alien species accounted for approximately 4.3% of all species obtained at the campus.

Table 2.

List of species collected by net sweeping, light traps, and Tullgren funnels in Komaba Campus of the University of Tokyo, Tokyo, Japan.

Family	Species	Net sweeping	Light trap	Tullgren funnel
Enicocephalidae	*Hoplitocoris lewisi* (Distant, 1903)	3	0	10
Enicocephalidae	*Stenopirates japonicus* (Esaki, 1935)	0	0	1
Corixidae	*Micronecta orientalis* Wróblewski, 1960	1	0	0
Notonectidae	*Anisops ogasawarensis* Matsumura, 1915	5	0	0
Hydrometridae	*Hydrometra procera* Horváth, 1905	0	1	0
Veliidae	*Microvelia douglasi* Scott, 1874	106	0	0
Veliidae	*Microvelia horvathi* Lundblad, 1933	6	0	0
Gerridae	*Aquarius elongatus* (Uhler, 1897)	1	0	0
Gerridae	*Aquarius paludum paludum* (Fabricius, 1794)	3	0	0
Gerridae	*Gerris latiabdominis* Miyamoto, 1958	12	0	0
Saldidae	*Saldula saltatoria* (Linnaeus, 1758)	1	0	0
Tingidae	*Corythucha ciliata* (Say, 1832)	28	0	0
Tingidae	*Corythucha marmorata* (Uhler, 1878)	45	0	0
Tingidae	*Cysteochila consueta* Drake, 1948	36	0	0
Tingidae	*Dulinius conchatus* Distant, 1903	16	0	0
Tingidae	*Stephanitis nashi* Esaki et Takeya, 1931	6	0	0
Tingidae	*Stephanitis pyrioides* (Scott, 1874)	2	0	0
Tingidae	*Stephanitis svensoni* Drake, 1912	1	0	0
Tingidae	*Stephanitis takeyai* Drake et Maa, 1955	1	0	0
Tingidae	*Uhlerites debilis* (Uhler, 1896)	5	0	0

Miridae	*Apolygus hilaris* (Horváth, 1905)	47	0	0
Miridae	*Apolygus spinolae* (Meyer-Dür, 1841)	1	0	0
Miridae	*Apolygus subpulchellus* (Kerzhner, 1988)	134	0	0
Miridae	*Atractotomoidea castanea* Yasunaga, 1999	1	0	0
Miridae	*Campylomma lividum* Reuter, 1885	6	0	0
Miridae	*Campyloneura virgula* (Herrich-Schaeffer, 1836)	9	0	0
Miridae	*Castanopsides hasegawai* Yasunaga, 1992	2	1	0
Miridae	*Charagochilus angusticollis* Linnavuori, 1961	24	0	0
Miridae	*Cimidaeorus hasegawai* Nakatani, Yasunaga et Takai, 2000	1	0	0
Miridae	*Coridromius chinensis* Liu et Zhao, 1999	1	0	0
Miridae	*Creontiades coloripes* Hsiao, 1963	3	0	0
Miridae	*Dryophilocoris miyamotoi* Yasunaga, 1999	3	0	0
Miridae	*Eurystylus coelestialium* (Kirkaldy, 1902)	13	0	0
Miridae	*Eurystylus luteus* Hsiao, 1941	5	0	0
Miridae	*Harpocera orientalis* Kerzhner, 1979	1	0	0
Miridae	*Kasumiphylus kyushuensis* (Linnavuori, 1961)	1	7	0
Miridae	*Monalocoris filicis* (Linnaeus, 1758)	44	0	0
Miridae	*Neolygus pteleinus* (Kerzhner, 1977)	10	1	0
Miridae	*Philostephanus rubripes* (Jakovlev, 1876)	1	0	0
Miridae	*Phylus miyamotoi* Yasunaga, 1999	12	0	0
Miridae	*Pilophorus setulosus* Horváth, 1905	16	0	0
Miridae	*Pilophorus typicus* (Dsitant, 1909)	6	1	0
Miridae	*Psallus bagjonicus* Josifov, 1983	9	0	0
Miridae	*Psallus edoensis* Yasunaga et Vinokurov, 2000	36	0	0
Miridae	*Psallus roseoguttatus* Yasunaga et Vinokurov, 2000	8	0	0

Miridae	*Pseudoloxops miyamotoi* Yasunaga, 1997	1	0	0
Miridae	*Pseudophylus flavipes* (Nitobe, 1906)	43	0	0
Miridae	*Sejanus komabanus* Yasunaga, Ishikawa et Ito, 2013	7	0	0
Miridae	*Stethoconus japonicus* Schumacher, 1917	1	2	0
Miridae	*Taylorilygus apicalis* (Fieber, 1861)	15	0	0
Miridae	*Termatophylum hikosanum* Miyamoto, 1965	2	0	0
Miridae	*Trigonotylus caelestialium* (Kirkaldy, 1902)	47	3	0
Miridae	*Yamatolygus* sp.	1	0	0
Miridae	*Zanchius tarasovi* Kerzhner, 1988	16	0	0
Nabidae	*Nabis kinbergii* Reuter, 1872	11	0	0
Anthocoridae	*Amphiareus obscuriceps* (Poppius, 1909)	16	12	0
Anthocoridae	*Cardiastethus exiguus* Poppius, 1913	3	4	0
Anthocoridae	*Orius minutus* (Linnaeus, 1758)	112	1	0
Anthocoridae	*Orius nagaii* Yasunaga, 1993	1	0	0
Anthocoridae	*Orius sauteri* (Poppius, 1909)	14	0	0
Anthocoridae	*Physopleurella armata* Poppius, 1909	0	23	0
Reduviidae	*Empicoris minutus* Usinger, 1946	10	0	0
Reduviidae	*Haematoloecha nigrorufa* (Stål, 1867)	1	0	0
Reduviidae	*Velinus nodipes* (Uhler, 1860)	3	0	0
Pachygronthidae	*Pachygrontha antennata* (Uhler, 1860)	27	0	0
Pachygronthidae	*Pachygrontha similis* Uhler, 1896	2	0	0
Rhyparochromidae	*Botocudo japonicus* (Hidaka, 1959)	0	1	0
Rhyparochromidae	*Gyndes pallicornis* (Dallas, 1852)	9	1	0
Rhyparochromidae	*Metochus abbreviatus* Scott, 1874	1	2	0
Rhyparochromidae	*Neolethaeus dallasi* (Scott, 1874)	1	0	0
Rhyparochromidae	*Pamerana scotti* (Distant, 1901)	2	1	0
Rhyparochromidae	*Panaorus japonicus* (Stål, 1874)	1	0	0

Rhyparochromidae	*Stigmatonotum geniculatum* (Motschulsky, 1863)	0	1	0
Rhyparochromidae	*Togo hemipterus* (Scott, 1874)	16	0	0
Geocoridae	*Geocoris proteus* Distant, 1883	20	0	0
Geocoridae	*Geocoris varius* (Uhler, 1860)	1	0	0
Blissidae	*Dimorphopterus bicoloripes* (Distant, 1883)	45	0	0
Lygaeidae	*Nysius plebeius* Distant, 1883	15	0	0
Lygaeidae	*Nysius* sp.	175	0	0
Malcidae	*Chauliops fallax* Scott, 1874	29	0	0
Berytidae	*Metacanthus pulchellus* Dallas, 1852	3	0	0
Berytidae	*Yemma exilis* Horváth, 1905	18	1	0
Largidae	*Physopelta gutta* (Burmeister, 1834)	3	0	0
Largidae	*Physopelta parviceps* Blöte, 1931	2	0	0
Pyrrhocoridae	*Pyrrhocoris sibiricus* Kuschakewitsch, 1866	2	0	0
Alydidae	*Leptocorisa chinensis* Dallas, 1852	4	0	0
Alydidae	*Paraplesius vulgaris* (Hsiao, 1964)	3	0	0
Alydidae	*Riptortus pedestris* (Fabricius, 1775)	2	0	0
Rhopalidae	*Liorhyssus hyalinus* (Fabricius, 1794)	7	0	0
Rhopalidae	*Rhopalus maculatus* (Fieber, 1837)	1	0	0
Rhopalidae	*Stictopleurus punctatonervosus* (Goeze, 1778)	4	0	0
Coreidae	*Acanthocoris sordidus* (Thunberg, 1783)	3	0	0
Coreidae	*Cletus punctiger* (Dallas, 1852)	1	0	0
Coreidae	*Cletus schmidti* Kiritshenko, 1916	8	0	0
Coreidae	*Homoeocerus unipunctatus* (Thunberg, 1783)	5	0	0
Coreidae	*Leptoglossus occidentalis* Heidemann, 1910	1	0	0
Coreidae	*Paradasynus spinosus* Hsiao, 1963	2	0	0
Plataspidae	*Megacopta punctatissima* (Montandon, 1896)	12	0	0

Cydnidae	*Adomerus triguttulus* (Motschulsky, 1866)	5	0	0
Cydnidae	*Adrisa magna* (Uhler, 1860)	2	0	0
Cydnidae	*Chilocoris confusus* Horváth, 1919	0	0	2
Cydnidae	*Macroscytus japonensis* Scott, 1874	4	0	1
Cydnidae	*Microporus nigrita* (Fabricius, 1794)	1	0	0
Scutelleridae	*Poecilocoris lewisi* (Distant, 1883)	2	0	0
Pentatomidae	*Aelia fieberi* Scott, 1874	10	0	0
Pentatomidae	*Dolycoris baccarum* (Linnaeus, 1758)	5	0	0
Pentatomidae	*Dybowskyia reticulata* (Dallas, 1851)	1	0	0
Pentatomidae	*Eysarcoris annamita* Breddin, 1909	2	0	0
Pentatomidae	*Glaucias subpunctatus* (Walker, 1867)	1	3	0
Pentatomidae	*Halyomorpha halys* (Stål, 1855)	3	3	0
Pentatomidae	*Nezara viridula* (Linnaeus, 1758)	1	0	0
Pentatomidae	*Plautia stali* Scott, 1874	10	6	1
Acanthosomatidae	*Acanthosoma denticaudum* Jakovlev, 1880	1	0	0
Acanthosomatidae	*Acanthosoma giganteum* Matsumura, 1913	1	0	0
Acanthosomatidae	*Sastragala esakii* Hasegawa, 1959	1	0	0

Checklist of Heteroptera from Komaba Campus, the University of Tokyo, Tokyo, Japan

Infraorder Enicocephalomorpha Stichel, 1955

Family Enicocephalidae Stål, 1860

Hoplitocoris lewisi (Distant, 1903)

Materials

a. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Enicocephalidae; genus: *Hoplitocoris*; specificEpithet: *lewisi*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00001 | 2014-00002; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Enicocephalidae; genus: ***Hoplitocoris***; specificEpithet: ***lewisi***; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-31; individualCount: 1; sex: 1 unknown; lifeStage: nymph; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00003; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Enicocephalidae; genus: ***Hoplitocoris***; specificEpithet: ***lewisi***; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: Berlese funnel; eventDate: 2013-11-28; individualCount: 10; sex: 10 unknowns; lifeStage: nymph; recordedBy: T. Ishikawa & K. Kishimoto-Yamada; otherCatalogNumbers: 2014-00004 | 2014-00005 | 2014-00006 | 2014-00007 | 2014-00008 | 2014-00009 | 2014-00010 | 2014-00011 | 2014-00012 | 2014-00013; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stenopirates japonicus (Esaki, 1935)

Material

a. namePublishedIn: 1935; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Enicocephalidae; genus: ***Stenopirates***; specificEpithet: ***japonicus***; scientificNameAuthorship: Esaki; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: Berlese funnel; eventDate: 2013-11-28; individualCount: 1; sex: 1 unknown; lifeStage: nymph; recordedBy: T. Ishikawa & K. Kishimoto-Yamada; otherCatalogNumbers: 2014-00014; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Infraorder Nepomorpha Popov, 1968

Family Corixidae Latreille, 1802

Micronecta orientalis Wróblewski, 1960

Material

a. namePublishedIn: 1960; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Corixidae; genus: ***Micronecta***; specificEpithet: ***orientalis***;

scientificNameAuthorship: Wróblewski; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-14; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00015; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Notonectidae Latreille, 1802

Anisops ogasawarensis Matsumura, 1915

Materials

a. namePublishedIn: 1915; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Notonectidae; genus: *Anisops*; specificEpithet: *ogasawarensis*; scientificNameAuthorship: Matsumura; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 4; sex: 3 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00016 | 2014-00017 | 2014-00018 | 2014-00019; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1915; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Notonectidae; genus: *Anisops*; specificEpithet: *ogasawarensis*; scientificNameAuthorship: Matsumura; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-12-11; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00020; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Infraorder Gerromorpha Popov, 1971

Family Hydrometridae Billberg, 1820

Hydrometra procera Horváth, 1905

Material

a. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Hydrometridae; genus: *Hydrometra*; specificEpithet: *procera*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 male; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00021; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Veliidae Brullé, 1836

Microvelia douglasi Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *douglasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-14/2013-06-15; individualCount: 28; sex: 10 males, 18 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00022 | 2014-00023 | 2014-00024 | 2014-00025 | 2014-00026 | 2014-00027 | 2014-00028 | 2014-00029 | 2014-00030 | 2014-00031 | 2014-00032 | 2014-00033 | 2014-00034 | 2014-00035 | 2014-00036 | 2014-00037 | 2014-00038 | 2014-00039 | 2014-00040 | 2014-00041 | 2014-00042 | 2014-00043 | 2014-00044 | 2014-00045 | 2014-00046 | 2014-00047 | 2014-00048 | 2014-00049; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *douglasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 11; sex: 7 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00050 | 2014-00051 | 2014-00052 | 2014-00053 | 2014-00054 | 2014-00055 | 2014-00056 | 2014-00057 | 2014-00058 | 2014-00059 | 2014-00060; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *douglasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-28; individualCount: 58; sex: 23 males, 35 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00061 | 2014-00062 | 2014-00063 | 2014-00064 | 2014-00065 | 2014-00066 | 2014-00067 | 2014-00068 | 2014-00069 | 2014-00070 | 2014-00071 | 2014-00072 | 2014-00073 | 2014-00074 | 2014-00075 | 2014-00076 | 2014-00077 | 2014-00078 | 2014-00079 | 2014-00080 | 2014-00081 | 2014-00082 | 2014-00083 | 2014-00084 | 2014-00085 | 2014-00086 | 2014-00087 | 2014-00088 | 2014-00089 | 2014-00090 | 2014-00091 | 2014-00092 | 2014-00093 | 2014-00094 | 2014-00095 | 2014-00096 | 2014-00097 | 2014-00098 | 2014-00099 | 2014-00100 | 2014-00101 | 2014-00102 | 2014-00103 | 2014-00104 | 2014-00105 | 2014-00106 | 2014-00107 | 2014-00108 | 2014-00109 |

2014-00110 | 2014-00111 | 2014-00112 | 2014-00113 | 2014-00114 | 2014-00115 | 2014-00116 | 2014-00117 | 2014-00118; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *douglasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00119 | 2014-00120; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *douglasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-12-11; individualCount: 7; sex: 6 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00121 | 2014-00122 | 2014-00123 | 2014-00124 | 2014-00125 | 2014-00126 | 2014-00127; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Microvelia horvathi Lundblad, 1933

Material

a. namePublishedIn: 1933; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Veliidae; genus: *Microvelia*; specificEpithet: *horvathi*; scientificNameAuthorship: Lundblad; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 6; sex: 2 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00128 | 2014-00129 | 2014-00130 | 2014-00131 | 2014-00132 | 2014-00133; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Gerridae Leach, 1815

Aquarius elongatus (Uhler, 1897)

Material

a. namePublishedIn: 1897; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Gerridae; genus: *Aquarius*; specificEpithet: *elongatus*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00134; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Aquarius paludum subsp. *paludum* (Fabricius, 1794)

Materials

a. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Gerridae; genus: *Aquarius*; specificEpithet: *paludum*; infraspecificEpithet: paludum; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-14; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00135 | 2014-00136; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Gerridae; genus: *Aquarius*; specificEpithet: *paludum*; infraspecificEpithet: paludum; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00137; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Gerris latiabdominis Miyamoto, 1958

Materials

a. namePublishedIn: 1958; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Gerridae; genus: *Gerris*; specificEpithet: *latiabdominis*; scientificNameAuthorship: Miyamoto; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-14; individualCount: 8; sex: 3 males, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00138 | 2014-00139 | 2014-00140 | 2014-00141 | 2014-00142 | 2014-00143 | 2014-00144 | 2014-00145; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1958; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Gerridae; genus: *Gerris*; specificEpithet: *latiabdominis*; scientificNameAuthorship: Miyamoto; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 4; sex: 1 male, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00146 | 2014-00147 |

2014-00148 | 2014-00149; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Infraorder Leptopodomorpha Popov, 1971

Family Saldidae Amyot et Serville, 1843

Saldula saltatoria (Linnaeus, 1758)

Material

a. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Saldidae; genus: *Saldula*; specificEpithet: *saltatoria*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00150; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Infraorder Cimicomorpha Leston, Pendergrast et Southwood, 1954

Family Tingidae Laporte, 1832

Corythucha ciliata (Say, 1832)

Materials

a. namePublishedIn: 1832; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *ciliata*; scientificNameAuthorship: Say; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00871 | 2014-00872; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1832; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *ciliata*; scientificNameAuthorship: Say; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00873; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1832; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *ciliata*;

scientificNameAuthorship: Say; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00874; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1832; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *ciliata*; scientificNameAuthorship: Say; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-01-01; individualCount: 24; sex: 5 males, 19 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00875 | 2014-00876 | 2014-00877 | 2014-00878 | 2014-00879 | 2014-00880 | 2014-00881 | 2014-00882 | 2014-00883 | 2014-00884 | 2014-00885 | 2014-00886 | 2014-00887 | 2014-00888 | 2014-00889 | 2014-00890 | 2014-00891 | 2014-00892 | 2014-00893 | 2014-00894 | 2014-00895 | 2014-00896 | 2014-00897 | 2014-00898; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Notes: Known as a recent alien species to Japan (Tokihiro et al. 2003) and recorded in Tokyo for the first time by Tokyo Metropolitan Plant Protection Office (2003).

Corythucha marmorata (Uhler, 1878)

Materials

a. namePublishedIn: 1878; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *marmorata*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28/2013-04-29; individualCount: 22; sex: 8 males, 14 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00899 | 2014-00900 | 2014-00901 | 2014-00902 | 2014-00903 | 2014-00904 | 2014-00905 | 2014-00906 | 2014-00907 | 2014-00908 | 2014-00909 | 2014-00910 | 2014-00911 | 2014-00912 | 2014-00913 | 2014-00914 | 2014-00915 | 2014-00916 | 2014-00917 | 2014-00918 | 2014-00919 | 2014-00325; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1878; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *marmorata*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 11; sex: 4 males, 7 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00920 | 2014-00921 | 2014-00922 | 2014-00923 | 2014-00924 | 2014-00925 | 2014-00926 |

2014-00927 | 2014-00928 | 2014-00929 | 2014-00930; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1878; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *marmorata*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 7; sex: 7 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00931 | 2014-00932 | 2014-00933 | 2014-00934 | 2014-00935 | 2014-00936 | 2014-00937; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1878; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *marmorata*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00938 | 2014-00939; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1878; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Corythucha*; specificEpithet: *marmorata*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00940 | 2014-00941 | 2014-00942; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Known as a recent alien species to Japan (Tomokuni 2002) and recorded in Tokyo for the first time by Ishikawa and Hayashi (2013).

Cysteochila consueta Drake, 1948

Materials

a. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00943 | 2014-00944; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 25; sex: 14 males, 11 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00945 | 2014-00946 | 2014-00947 | 2014-00948 | 2014-00949 | 2014-00950 | 2014-00951 | 2014-00952 | 2014-00953 | 2014-00954 | 2014-00955 | 2014-00956 | 2014-00957 | 2014-00958 | 2014-00959 | 2014-00960 | 2014-00961 | 2014-00962 | 2014-00963 | 2014-00964 | 2014-00965 | 2014-00966 | 2014-00967 | 2014-00968 | 2014-00969; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00970 | 2014-00971; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00972; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00973 | 2014-00974; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00975 | 2014-00976; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

g. namePublishedIn: 1948; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Cysteochila*; specificEpithet: *consueta*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.;

minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00977 | 2014-00978; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Dulinius conchatus Distant, 1903

Materials

a. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Dulinius*; specificEpithet: *conchatus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00979 | 2014-00980; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Dulinius*; specificEpithet: *conchatus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00981; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Dulinius*; specificEpithet: *conchatus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 7; sex: 3 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00982 | 2014-00983 | 2014-00984 | 2014-00985 | 2014-00986 | 2014-00987 | 2014-00988; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Dulinius*; specificEpithet: *conchatus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00989 | 2014-00990 | 2014-00991; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1903; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Dulinius*; specificEpithet: *conchatus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00992 | 2014-00993 | 2014-00994; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Known as a recent alien species to Japan (Tomokuni and Saito 1998) and recorded in Tokyo for the first time by Yamazaki (2011).

Stephanitis nashi Esaki et Takeya, 1931

Materials

a. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: ***Stephanitis***; specificEpithet: ***nashi***; scientificNameAuthorship: Esaki et Takeya; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-29; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00995; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: ***Stephanitis***; specificEpithet: ***nashi***; scientificNameAuthorship: Esaki et Takeya; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00996 | 2014-00997; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: ***Stephanitis***; specificEpithet: ***nashi***; scientificNameAuthorship: Esaki et Takeya; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00998; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: ***Stephanitis***; specificEpithet: ***nashi***; scientificNameAuthorship: Esaki et Takeya; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18/2013-05-19; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00999 |

2014-01000; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stephanitis pyrioides (Scott, 1874)

Material

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Stephanitis*; specificEpithet: *pyrioides*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01001 | 2014-01002; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stephanitis svensoni Drake, 1912

Material

a. namePublishedIn: 1912; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Stephanitis*; specificEpithet: *svensoni*; scientificNameAuthorship: Drake; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01004; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stephanitis takeyai Drake et Maa, 1955

Material

a. namePublishedIn: 1955; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Stephanitis*; specificEpithet: *takeyai*; scientificNameAuthorship: Drake et Maa; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01003; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Uhlerites debilis (Uhler, 1896)

Materials

a. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Uhlerites*; specificEpithet: *debilis*;

scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 4; sex: 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01005 | 2014-01006 | 2014-01007 | 2014-01008; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Tingidae; genus: *Uhlerites*; specificEpithet: *debilis*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01009; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Miridae Hahn, 1833

Apolygus hilaris (Horváth, 1905)

Materials

a. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00378; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00379; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 3; sex: 3 females; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00380 | 2014-00381 | 2014-00382; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 10; sex: 5 males, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00383 | 2014-00384 | 2014-00385 | 2014-00386 | 2014-00387 | 2014-00388 | 2014-00389 | 2014-00390 | 2014-00391 | 2014-00392; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-15/2013-06-18; individualCount: 27; sex: 11 males, 16 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00393 | 2014-00394 | 2014-00395 | 2014-00396 | 2014-00397 | 2014-00398 | 2014-00399 | 2014-00400 | 2014-00401 | 2014-00402 | 2014-00403 | 2014-00404 | 2014-00405 | 2014-00406 | 2014-00407 | 2014-00408 | 2014-00409 | 2014-00410 | 2014-00411 | 2014-00412 | 2014-00413 | 2014-00414 | 2014-00415 | 2014-00416 | 2014-00417 | 2014-00418 | 2014-00419; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *hilaris*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 5; sex: 3 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00420 | 2014-00421 | 2014-00422 | 2014-00423 | 2014-00424; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Apolygus spinolae (Meyer-Dür, 1841)

Material

a. namePublishedIn: 1841; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *spinolae*; scientificNameAuthorship: Meyer-Dür; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00377; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Apolygus subpulchellus (Kerzhner, 1988)

Materials

a. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Apolygus***; specificEpithet: ***subpulchellus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00425 | 2014-00426 | 2014-00427; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Apolygus***; specificEpithet: ***subpulchellus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18/2013-05-19; individualCount: 39; sex: 17 males, 22 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00428 | 2014-00429 | 2014-00430 | 2014-00431 | 2014-00432 | 2014-00433 | 2014-00434 | 2014-00435 | 2014-00436 | 2014-00437 | 2014-00438 | 2014-00439 | 2014-00440 | 2014-00441 | 2014-00442 | 2014-00443 | 2014-00444 | 2014-00445 | 2014-00446 | 2014-00447 | 2014-00448 | 2014-00449 | 2014-00450 | 2014-00451 | 2014-00452 | 2014-00453 | 2014-00454 | 2014-00455 | 2014-00456 | 2014-00457 | 2014-00458 | 2014-00459 | 2014-00460 | 2014-00461 | 2014-00462 | 2014-00463 | 2014-00464 | 2014-00465 | 2014-00466; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Apolygus***; specificEpithet: ***subpulchellus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 27; sex: 11 males, 16 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00467 | 2014-00468 | 2014-00469 | 2014-00470 | 2014-00471 | 2014-00472 | 2014-00473 | 2014-00474 | 2014-00475 | 2014-00476 | 2014-00477 | 2014-00478 | 2014-00479 | 2014-00480 | 2014-00481 | 2014-00482 | 2014-00483 | 2014-00484 | 2014-00485 | 2014-00486 | 2014-00487 | 2014-00488 | 2014-00489 | 2014-00490 | 2014-00491 | 2014-00492 | 2014-00493; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Apolygus***; specificEpithet: ***subpulchellus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-15/2013-06-18; individualCount: 39; sex: 20 males, 19 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00494 | 2014-00495 | 2014-00496 | 2014-00497 | 2014-00498 | 2014-00499 | 2014-00500 | 2014-00501 | 2014-00502 | 2014-00503 | 2014-00504 | 2014-00505 | 2014-00506 | 2014-00507 | 2014-00508 | 2014-00509 | 2014-00510 | 2014-00511 | 2014-00512 | 2014-00513 | 2014-00514 | 2014-00515 | 2014-00516 | 2014-00517 | 2014-00518 | 2014-00519 | 2014-00520 | 2014-00521 | 2014-00522 | 2014-00523 | 2014-00524 | 2014-00525 | 2014-00526 | 2014-00527 | 2014-00528 | 2014-00529 | 2014-00530 | 2014-00531 | 2014-00532; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Apolygus*; specificEpithet: *subpulchellus*; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-26; individualCount: 26; sex: 8 males, 18 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00533 | 2014-00534 | 2014-00535 | 2014-00536 | 2014-00537 | 2014-00538 | 2014-00539 | 2014-00540 | 2014-00541 | 2014-00542 | 2014-00543 | 2014-00544 | 2014-00545 | 2014-00546 | 2014-00547 | 2014-00548 | 2014-00549 | 2014-00550 | 2014-00551 | 2014-00552 | 2014-00553 | 2014-00554 | 2014-00555 | 2014-00556 | 2014-00557 | 2014-00558; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Atractotomoidea castanea Yasunaga, 1999

Material

a. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Atractotomoidea*; specificEpithet: *castanea*; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00195; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Campylomma lividum Reuter, 1885

Materials

a. namePublishedIn: 1885; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Campylomma*; specificEpithet: *lividum*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00196 | 2014-00197 | 2014-00198; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1885; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Campylomma*; specificEpithet: *lividum*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00199 | 2014-00200; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1885; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Campylomma*; specificEpithet: *lividum*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00201; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: So far known as "*Campylomma chinense* Schuh, 1984" in Japan (Yasunaga and Duwal 2014).

Campyloneura virgula (Herrich-Schaeffer, 1836)

Materials

a. namePublishedIn: 1836; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Campyloneura*; specificEpithet: *virgula*; scientificNameAuthorship: Herrich-Schaeffer; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25/2013-05-28; individualCount: 8; sex: 8 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01533 | 2014-01534 | 2014-01535 | 2014-01536 | 2014-01537 | 2014-01538 | 2014-01539 | 2014-01540; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1836; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Campyloneura*; specificEpithet: *virgula*; scientificNameAuthorship: Herrich-Schaeffer; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01541; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Known as a recent alien species to Japan (Tokyo and Kanagawa Prefecture) (Yasunaga and Yamada 2014).

Castanopsides hasegawai Yasunaga, 1992

Materials

a. namePublishedIn: 1992; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Castanopsides***; specificEpithet: ***hasegawai***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-10; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00559; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1992; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Castanopsides***; specificEpithet: ***hasegawai***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00560 | 2014-00561; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Charagochilus angusticollis Linnavuori, 1961

Materials

a. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Charagochilus***; specificEpithet: ***angusticollis***; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00562; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Charagochilus***; specificEpithet: ***angusticollis***; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00563 | 2014-00564; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Charagochilus***; specificEpithet: ***angusticollis***; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 14; sex: 6 males, 8 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00565 | 2014-00566 | 2014-00567 | 2014-00568 | 2014-00569 | 2014-00570 | 2014-00571 | 2014-00572 | 2014-00573 | 2014-00574 | 2014-00575 | 2014-00576 | 2014-00577 | 2014-00578; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Charagochilus*; specificEpithet: *angusticollis*; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 7; sex: 3 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00579 | 2014-00580 | 2014-00581 | 2014-00582 | 2014-00583 | 2014-00584 | 2014-00585; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Cimidaeorus hasegawai Nakatani, Yasunaga et Takai, 2000

Material

a. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Cimidaeorus*; specificEpithet: *hasegawai*; scientificNameAuthorship: Nakatani, Yasunaga et Takai; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00371; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Coridromius chinensis Liu et Zhao, 1999

Material

a. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Coridromius*; specificEpithet: *chinensis*; scientificNameAuthorship: Liu et Zhao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00151; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Creontiades coloripes Hsiao, 1963

Material

a. namePublishedIn: 1963; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Creontiades*; specificEpithet: *coloripes*; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00586 | 2014-00587 | 2014-00588; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Dryophilocoris miyamotoi Yasunaga, 1999

Materials

a. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Dryophilocoris*; specificEpithet: *miyamotoi*; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-27; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-00152; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Dryophilocoris*; specificEpithet: *miyamotoi*; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-01; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00153 | 2014-00154; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Eurystylus coelestialium (Kirkaldy, 1902)

Materials

a. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Eurystylus*; specificEpithet: *coelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 6; sex: 1 male, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00589 | 2014-00590 |

2014-00591 | 2014-00592 | 2014-00593 | 2014-00594; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Eurystylus***; specificEpithet: ***coelestialium***; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16/2013-06-18; individualCount: 6; sex: 3 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00595 | 2014-00596 | 2014-00597 | 2014-00598 | 2014-00599 | 2014-00600; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Eurystylus***; specificEpithet: ***coelestialium***; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00601; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Eurystylus luteus Hsiao, 1941

Materials

a. namePublishedIn: 1941; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Eurystylus***; specificEpithet: ***luteus***; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 4; sex: 3 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00602 | 2014-00603 | 2014-00604 | 2014-00605; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1941; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Eurystylus***; specificEpithet: ***luteus***; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-14; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-00606; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Harpocera orientalis Kerzhner, 1979

Material

a. namePublishedIn: 1979; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Harpocera*; specificEpithet: *orientalis*; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-01; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00202; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Kasumiphylus kyushuensis (Linnavuori, 1961)

Materials

a. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Kasumiphylus*; specificEpithet: *kyushuensis*; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 7; sex: 2 males, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00203 | 2014-00204 | 2014-00205 | 2014-00206 | 2014-00207 | 2014-00320 | 2014-00322; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1961; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Kasumiphylus*; specificEpithet: *kyushuensis*; scientificNameAuthorship: Linnavuori; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00208; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Monalocoris filicis (Linnaeus, 1758)

Materials

a. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Monalocoris*; specificEpithet: *filicis*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00327; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Monalocoris*; specificEpithet: *filicis*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15/2013-08-18; individualCount: 29; sex: 16 males, 13 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00328 | 2014-00329 | 2014-00330 | 2014-00331 | 2014-00332 | 2014-00333 | 2014-00334 | 2014-00335 | 2014-00336 | 2014-00337 | 2014-00338 | 2014-00339 | 2014-00340 | 2014-00341 | 2014-00342 | 2014-00343 | 2014-00344 | 2014-00345 | 2014-00346 | 2014-00347 | 2014-00348 | 2014-00349 | 2014-00350 | 2014-00351 | 2014-00352 | 2014-00353 | 2014-00354 | 2014-00355 | 2014-00356; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Monalocoris*; specificEpithet: *filicis*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00357; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Monalocoris*; specificEpithet: *filicis*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 5; sex: 4 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00358 | 2014-00359 | 2014-00360 | 2014-00361 | 2014-00362; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Monalocoris*; specificEpithet: *filicis*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 8; sex: 2 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00363 | 2014-00364 | 2014-00365 | 2014-00366 | 2014-00367 | 2014-00368 | 2014-00369 | 2014-00370; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Neolygus pteleinus (Kerzhner, 1977)

Materials

a. namePublishedIn: 1977; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Neolygus***; specificEpithet: ***pteleinus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00607; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1977; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Neolygus***; specificEpithet: ***pteleinus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-01/2013-05-04; individualCount: 7; sex: 3 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00608 | 2014-00609 | 2014-00610 | 2014-00611 | 2014-00612 | 2014-00613 | 2014-00614; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1977; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Neolygus***; specificEpithet: ***pteleinus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00615; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1977; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Neolygus***; specificEpithet: ***pteleinus***; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16/2013-06-18; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00616 | 2014-00617; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Philostephanus rubripes (Jakovlev, 1876)

Material

a. namePublishedIn: 1876; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Philostephanus***; specificEpithet: ***rubripes***; scientificNameAuthorship: Jakovlev; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00618; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Phylus miyamotoi Yasunaga, 1999

Materials

a. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Phylus***; specificEpithet: ***miyamotoi***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-29; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00209; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Phylus***; specificEpithet: ***miyamotoi***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 8; sex: 4 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00210 | 2014-00211 | 2014-00212 | 2014-00213 | 2014-00214 | 2014-00215 | 2014-00216 | 2014-00217; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Phylus***; specificEpithet: ***miyamotoi***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00218 | 2014-00219; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1999; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Phylus***; specificEpithet: ***miyamotoi***; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00220; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Pilophorus setulosus Horváth, 1905

Materials

a. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pilophorus*; specificEpithet: *setulosus*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-15/2013-06-18; individualCount: 7; sex: 4 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00172 | 2014-00173 | 2014-00174 | 2014-00175 | 2014-00176 | 2014-00177 | 2014-00178; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pilophorus*; specificEpithet: *setulosus*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 7; sex: 6 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00179 | 2014-00180 | 2014-00181 | 2014-00182 | 2014-00183 | 2014-00184 | 2014-00185; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pilophorus*; specificEpithet: *setulosus*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00186 | 2014-00187; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Pilophorus typicus (Dsitant, 1909)

Materials

a. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pilophorus*; specificEpithet: *typicus*; scientificNameAuthorship: Dsitant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-06-22; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00188 | 2014-00189; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Pilophorus***; specificEpithet: ***typicus***; scientificNameAuthorship: Dsitant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00190; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Pilophorus***; specificEpithet: ***typicus***; scientificNameAuthorship: Dsitant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00191 | 2014-00192 | 2014-00193; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Pilophorus***; specificEpithet: ***typicus***; scientificNameAuthorship: Dsitant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00194; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Psallus bagjonicus Josifov, 1983

Material

a. namePublishedIn: 1983; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***bagjonicus***; scientificNameAuthorship: Josifov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-01/2013-05-04; individualCount: 9; sex: 4 males, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00265 | 2014-00266 | 2014-00267 | 2014-00268 | 2014-00269 | 2014-00270 | 2014-00271 | 2014-00272 | 2014-00273; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Psallus edoensis Yasunaga et Vinokurov, 2000

Materials

a. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***edoensis***; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-27/2013-04-29; individualCount: 22; sex: 13 males, 9 females; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-00229 | 2014-00230 | 2014-00231 | 2014-00232 | 2014-00233 | 2014-00234 | 2014-00235 | 2014-00236 | 2014-00237 | 2014-00238 | 2014-00239 | 2014-00240 | 2014-00241 | 2014-00242 | 2014-00243 | 2014-00244 | 2014-00245 | 2014-00246 | 2014-00247 | 2014-00248 | 2014-00249 | 2014-00250; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***edoensis***; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 8; sex: 4 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00251 | 2014-00252 | 2014-00253 | 2014-00254 | 2014-00255 | 2014-00256 | 2014-00257 | 2014-00258; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***edoensis***; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00259 | 2014-00260; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***edoensis***; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00261; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: ***Psallus***; specificEpithet: ***edoensis***; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-05-25; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00262 | 2014-00263 | 2014-00264; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Recently rediscovered after being undetected for 59 years (Ishikawa et al. 2014).

Psallus roseoguttatus Yasunaga et Vinokurov, 2000

Materials

a. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Psallus*; specificEpithet: *roseoguttatus*; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 5; sex: 4 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00221 | 2014-00222 | 2014-00223 | 2014-00224 | 2014-00225; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Psallus*; specificEpithet: *roseoguttatus*; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00226; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 2000; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Psallus*; specificEpithet: *roseoguttatus*; scientificNameAuthorship: Yasunaga et Vinokurov; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00227 | 2014-00228; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record from eastern Japan as well as Tokyo.

Pseudoloxops miyamotoi Yasunaga, 1997

Material

a. namePublishedIn: 1997; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudoloxops*; specificEpithet: *miyamotoi*; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.;

minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00155; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record from eastern Japan as well as Tokyo.

Pseudophylus flavipes (Nitobe, 1906)

Materials

a. namePublishedIn: 1906; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudophylus*; specificEpithet: *flavipes*; scientificNameAuthorship: Nitobe; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28/2013-04-29; individualCount: 5; sex: 2 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00274 | 2014-00275 | 2014-00276 | 2014-00277 | 2014-00278; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1906; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudophylus*; specificEpithet: *flavipes*; scientificNameAuthorship: Nitobe; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-01/2013-05-04; individualCount: 35; sex: 19 males, 16 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00279 | 2014-00280 | 2014-00281 | 2014-00282 | 2014-00283 | 2014-00284 | 2014-00285 | 2014-00286 | 2014-00287 | 2014-00288 | 2014-00289 | 2014-00290 | 2014-00291 | 2014-00292 | 2014-00293 | 2014-00294 | 2014-00295 | 2014-00296 | 2014-00297 | 2014-00298 | 2014-00299 | 2014-00300 | 2014-00301 | 2014-00302 | 2014-00303 | 2014-00304 | 2014-00305 | 2014-00306 | 2014-00307 | 2014-00308 | 2014-00309 | 2014-00310 | 2014-00311 | 2014-00312 | 2014-00313; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1906; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudophylus*; specificEpithet: *flavipes*; scientificNameAuthorship: Nitobe; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00314; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1906; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudophylus*; specificEpithet: *flavipes*; scientificNameAuthorship: Nitobe; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00315; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1906; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Pseudophylus*; specificEpithet: *flavipes*; scientificNameAuthorship: Nitobe; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00316; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Sejanus komabanus Yasunaga, Ishikawa et Ito, 2013

Material

a. namePublishedIn: 2013; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Sejanus*; specificEpithet: *komabanus*; scientificNameAuthorship: Yasunaga, Ishikawa et Ito; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-15/2013-06-18; individualCount: 7; sex: 7 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00317 | 2014-00318 | 2014-00319 | 2014-00321 | 2014-00323 | 2014-00324 | 2014-00326; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Recently described as a new species from Komaba Campus (Yasunaga et al. 2013).

Stethoconus japonicus Schumacher, 1917

Materials

a. namePublishedIn: 1917; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Stethoconus*; specificEpithet: *japonicus*; scientificNameAuthorship: Schumacher; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00372 | 2014-00373; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1917; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Stethoconus*; specificEpithet: *japonicus*; scientificNameAuthorship: Schumacher; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00374; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Taylorilygus apicalis (Fieber, 1861)

Material

a. namePublishedIn: 1861; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Taylorilygus*; specificEpithet: *apicalis*; scientificNameAuthorship: Fieber; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 15; sex: 2 males, 13 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00619 | 2014-00620 | 2014-00621 | 2014-00622 | 2014-00623 | 2014-00624 | 2014-00625 | 2014-00626 | 2014-00627 | 2014-00628 | 2014-00629 | 2014-00630 | 2014-00631 | 2014-00632 | 2014-00633; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Termatophylum hikosanum Miyamoto, 1965

Materials

a. namePublishedIn: 1965; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Termatophylum*; specificEpithet: *hikosanum*; scientificNameAuthorship: Miyamoto; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00375; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1965; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Termatophylum*; specificEpithet: *hikosanum*; scientificNameAuthorship: Miyamoto; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00376; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Trigonotylus caelestialium (Kirkaldy, 1902)

Materials

a. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 23; sex: 8 males, 15 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00635 | 2014-00636 | 2014-00637 | 2014-00638 | 2014-00639 | 2014-00640 | 2014-00641 | 2014-00642 | 2014-00643 | 2014-00644 | 2014-00645 | 2014-00646 | 2014-00647 | 2014-00648 | 2014-00649 | 2014-00650 | 2014-00651 | 2014-00652 | 2014-00653 | 2014-00654 | 2014-00655 | 2014-00656 | 2014-00657; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-14; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00658 | 2014-00659; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 8; sex: 1 male, 7 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00660 | 2014-00661 | 2014-00662 | 2014-00663 | 2014-00664 | 2014-00665 | 2014-00666 | 2014-00667; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00668; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 15; sex: 5 males, 10 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00669 | 2014-00670 | 2014-00671 | 2014-00672 | 2014-00673 | 2014-00674 | 2014-00675 | 2014-00676 | 2014-00677 | 2014-00678 | 2014-00679 | 2014-00680 | 2014-00681 | 2014-00682 | 2014-00683; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1902; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Trigonotylus*; specificEpithet: *caelestialium*; scientificNameAuthorship: Kirkaldy; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00684; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Yamatolygus sp.

Material

a. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Yamatolygus*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00634; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Probably belongs to an undescribed species.

Zanchius tarasovi Kerzhner, 1988

Materials

a. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Zanchius*; specificEpithet: *tarasovi*; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15/2013-08-19; individualCount: 13; sex: 7 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00156 | 2014-00157 | 2014-00158 | 2014-00159 | 2014-00160 | 2014-00161 | 2014-00162 | 2014-00163 | 2014-00164 | 2014-00165 | 2014-00166 | 2014-00167 | 2014-00168; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1988; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Miridae; genus: *Zanchius*; specificEpithet: *tarasovi*; scientificNameAuthorship: Kerzhner; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00169 | 2014-00170 | 2014-00171; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Family Nabidae A. Costa, 1853

Nabis kinbergii Reuter, 1872

Materials

a. namePublishedIn: 1872; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Nabidae; genus: *Nabis*; specificEpithet: *kinbergii*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01010; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1872; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Nabidae; genus: *Nabis*; specificEpithet: *kinbergii*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01011 | 2014-01012; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1872; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Nabidae; genus: *Nabis*; specificEpithet: *kinbergii*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 6; sex: 3 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01013 | 2014-01014 | 2014-01015 | 2014-01016 | 2014-01017 | 2014-01018; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1872; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Nabidae; genus: *Nabis*; specificEpithet: *kinbergii*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01019; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1872; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Nabidae; genus: *Nabis*; specificEpithet: *kinbergii*; scientificNameAuthorship: Reuter; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-11-03; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01020; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Anthocoridae Fieber, 1836

Amphiareus obscuriceps (Poppius, 1909)

Materials

a. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Amphiareus***; specificEpithet: ***obscuriceps***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16; individualCount: 13; sex: 3 males, 10 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00813 | 2014-00814 | 2014-00815 | 2014-00816 | 2014-00817 | 2014-00818 | 2014-00819 | 2014-00820 | 2014-00821 | 2014-00822 | 2014-00823 | 2014-00824 | 2014-00825; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Amphiareus***; specificEpithet: ***obscuriceps***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 9; sex: 3 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00826 | 2014-00827 | 2014-00828 | 2014-00829 | 2014-00830 | 2014-00831 | 2014-00832 | 2014-00833 | 2014-00834; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Amphiareus***; specificEpithet: ***obscuriceps***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00835 | 2014-00836 | 2014-00837; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Amphiareus***; specificEpithet: ***obscuriceps***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18/2013-08-19; individualCount: 2; sex: 2 females;

lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00838 | 2014-00839; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Amphiareus***; specificEpithet: ***obscuriceps***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00840; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Cardiastethus pygmaeus Poppius, 1913

Materials

a. namePublishedIn: 1915; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Cardiastethus***; specificEpithet: ***pygmaeus***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00841 | 2014-00842; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1915; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Cardiastethus***; specificEpithet: ***pygmaeus***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00843 | 2014-00844; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1915; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: ***Cardiastethus***; specificEpithet: ***pygmaeus***; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15/2013-08-18; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00845 | 2014-00846 | 2014-00847; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Orius minutus (Linnaeus, 1758)

Materials

a. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-14; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00685; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00686; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-15/2013-06-18; individualCount: 52; sex: 10 males, 42 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00687 | 2014-00688 | 2014-00689 | 2014-00690 | 2014-00691 | 2014-00692 | 2014-00693 | 2014-00694 | 2014-00695 | 2014-00696 | 2014-00697 | 2014-00698 | 2014-00699 | 2014-00700 | 2014-00701 | 2014-00702 | 2014-00703 | 2014-00704 | 2014-00705 | 2014-00706 | 2014-00707 | 2014-00708 | 2014-00709 | 2014-00710 | 2014-00711 | 2014-00712 | 2014-00713 | 2014-00714 | 2014-00715 | 2014-00716 | 2014-00717 | 2014-00718 | 2014-00719 | 2014-00720 | 2014-00721 | 2014-00722 | 2014-00723 | 2014-00724 | 2014-00725 | 2014-00726 | 2014-00727 | 2014-00728 | 2014-00729 | 2014-00730 | 2014-00731 | 2014-00732 | 2014-00733 | 2014-00734 | 2014-00735 | 2014-00736 | 2014-00737 | 2014-00738; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-28; individualCount: 44; sex: 12 males, 32 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00739 | 2014-00740 | 2014-00741 | 2014-00742 | 2014-00743 | 2014-00744 | 2014-00745 | 2014-00746 | 2014-00747 | 2014-00748 | 2014-00749 | 2014-00750 | 2014-00751 | 2014-00752 | 2014-00753 | 2014-00754 | 2014-00755 | 2014-00756 | 2014-00757 |

2014-00758 | 2014-00759 | 2014-00760 | 2014-00761 | 2014-00762 | 2014-00763 | 2014-00764 | 2014-00765 | 2014-00766 | 2014-00767 | 2014-00768 | 2014-00769 | 2014-00770 | 2014-00771 | 2014-00772 | 2014-00773 | 2014-00774 | 2014-00775 | 2014-00776 | 2014-00777 | 2014-00778 | 2014-00779 | 2014-00780 | 2014-00781 | 2014-00782; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 5; sex: 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00783 | 2014-00784 | 2014-00785 | 2014-00786 | 2014-00787; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 9; sex: 3 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00788 | 2014-00789 | 2014-00790 | 2014-00791 | 2014-00792 | 2014-00793 | 2014-00794 | 2014-00795 | 2014-00796; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

g. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *minutus*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-01-01; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00797; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Orius nagaii Yasunaga, 1993

Material

a. namePublishedIn: 1993; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *nagaii*; scientificNameAuthorship: Yasunaga; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00798; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Orius sauteri (Poppius, 1909)

Materials

a. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *sauteri*; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 7; sex: 6 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00799 | 2014-00800 | 2014-00801 | 2014-00802 | 2014-00803 | 2014-00804 | 2014-00805; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Orius*; specificEpithet: *sauteri*; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 7; sex: 5 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00806 | 2014-00807 | 2014-00808 | 2014-00809 | 2014-00810 | 2014-00811 | 2014-00812; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Physopleurella armata Poppius, 1909

Materials

a. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Physopleurella*; specificEpithet: *armata*; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00848; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Anthocoridae; genus: *Physopleurella*; specificEpithet: *armata*; scientificNameAuthorship: Poppius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 22; sex: 6 males, 16 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-00849 | 2014-00850 | 2014-00851 | 2014-00852 | 2014-00853 | 2014-00854 | 2014-00855 | 2014-00856 | 2014-00857 | 2014-00858 | 2014-00859 | 2014-00860 | 2014-00861 | 2014-00862 | 2014-00863 | 2014-00864 | 2014-00865 | 2014-00866 | 2014-00867 | 2014-00868 | 2014-00869 | 2014-00870; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Reduviidae Latreille, 1807

Empicoris minutus Usinger, 1946

Materials

a. namePublishedIn: 1946; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: ***Empicoris***; specificEpithet: ***minutus***; scientificNameAuthorship: Usinger; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16/2013-06-18; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01022 | 2014-01023 | 2014-01024 | 2014-01025; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1946; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: ***Empicoris***; specificEpithet: ***minutus***; scientificNameAuthorship: Usinger; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01026; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1946; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: ***Empicoris***; specificEpithet: ***minutus***; scientificNameAuthorship: Usinger; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15/2013-08-18; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01027 | 2014-01028; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1946; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: ***Empicoris***; specificEpithet: ***minutus***; scientificNameAuthorship: Usinger; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-19; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01029 | 2014-01030; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1946; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: ***Empicoris***; specificEpithet: ***minutus***; scientificNameAuthorship: Usinger; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01031; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Haematoloecha nigrorufa (Stål, 1867)

Material

a. namePublishedIn: 1867; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: *Haematoloecha*; specificEpithet: *nigrorufa*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-03; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01021; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Velinus nodipes (Uhler, 1860)

Materials

a. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: *Velinus*; specificEpithet: *nodipes*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01032; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: *Velinus*; specificEpithet: *nodipes*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 unknown; lifeStage: nymph; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01033; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Reduviidae; genus: *Velinus*; specificEpithet: *nodipes*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-05-01; individualCount: 1; sex: 1 unknown; lifeStage: nymph; recordedBy: K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01034; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Infraorder Pentatomomorpha Leston, Pendergrast et Southwood, 1954

Superfamily Lygaeoidea Schilling, 1829

Family Pachygronthidae Stål, 1865

Pachygrontha antennata (Uhler, 1860)

Materials

a. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-25; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01035; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01036 | 2014-01037; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01038; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01039 | 2014-01040; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01041 | 2014-01042 | 2014-01043; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01044 | 2014-01045 | 2014-01046 | 2014-01047; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

g. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***antennata***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 14; sex: 9 males, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01048 | 2014-01049 | 2014-01050 | 2014-01051 | 2014-01052 | 2014-01053 | 2014-01054 | 2014-01055 | 2014-01056 | 2014-01057 | 2014-01058 | 2014-01059 | 2014-01060 | 2014-01061; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Pachygrontha similis Uhler, 1896

Material

a. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pachygronthidae; genus: ***Pachygrontha***; specificEpithet: ***similis***; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01062 | 2014-01063; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Rhyparochromidae Amyot et Serville, 1843

Botocudo japonicus (Hidaka, 1959)

Material

a. namePublishedIn: 1959; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Botocudo*; specificEpithet: *japonicus*; scientificNameAuthorship: Hidaka; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01064; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Gyndes pallicornis (Dallas, 1852)

Materials

a. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Gyndes*; specificEpithet: *pallicornis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-14; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01066; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Gyndes*; specificEpithet: *pallicornis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01067 | 2014-01068; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Gyndes*; specificEpithet: *pallicornis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01069; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Gyndes*; specificEpithet: *pallicornis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.;

minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01070 | 2014-01071 | 2014-01072; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Gyndes*; specificEpithet: *pallicornis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01073 | 2014-01074 | 2014-01075; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Metochus abbreviatus Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Metochus*; specificEpithet: *abbreviatus*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-13; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01096 | 2014-01097; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Metochus*; specificEpithet: *abbreviatus*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-01; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01098; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Neolethaeus dallasi (Scott, 1874)

Material

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Neolethaeus*; specificEpithet: *dallasi*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-31; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01065; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Pamerana scotti (Distant, 1901)

Materials

a. namePublishedIn: 1901; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Pamerana*; specificEpithet: *scotti*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-10; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01076; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1901; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Pamerana*; specificEpithet: *scotti*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01077; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1901; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Pamerana*; specificEpithet: *scotti*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01078; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Panaorus japonicus (Stål, 1874)

Material

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Panaorus*; specificEpithet: *japonicus*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01099; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stigmatonotum geniculatum (Motschulsky, 1863)

Material

a. namePublishedIn: 1863; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: ***Stigmatonotum***; specificEpithet: ***geniculatum***; scientificNameAuthorship: Motschulsky; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01079; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Togo hemipterus (Scott, 1874)

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: ***Togo***; specificEpithet: ***hemipterus***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 9; sex: 9 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01080 | 2014-01081 | 2014-01082 | 2014-01083 | 2014-01084 | 2014-01085 | 2014-01086 | 2014-01087 | 2014-01088; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: ***Togo***; specificEpithet: ***hemipterus***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 4; sex: 1 male, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01089 | 2014-01090 | 2014-01091 | 2014-01092; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: ***Togo***; specificEpithet: ***hemipterus***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01093; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: ***Togo***; specificEpithet: ***hemipterus***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.;

minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01094; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhyparochromidae; genus: *Togo*; specificEpithet: *hemipterus*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01095; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Geocoridae Dahlbom, 1851

Geocoris proteus Distant, 1883

Material

a. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Geocoridae; genus: *Geocoris*; specificEpithet: *proteus*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 20; sex: 2 males, 18 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01100 | 2014-01101 | 2014-01102 | 2014-01103 | 2014-01104 | 2014-01105 | 2014-01106 | 2014-01107 | 2014-01108 | 2014-01109 | 2014-01110 | 2014-01111 | 2014-01112 | 2014-01113 | 2014-01114 | 2014-01115 | 2014-01116 | 2014-01117 | 2014-01118 | 2014-01119; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Geocoris varius (Uhler, 1860)

Material

a. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Geocoridae; genus: *Geocoris*; specificEpithet: *varius*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01120; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Blissidae Stål, 1862

Dimorphopterus bicoloripes (Distant, 1883)

Materials

a. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Blissidae; genus: *Dimorphopterus*; specificEpithet: *bicoloripes*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 8; sex: 5 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01121 | 2014-01122 | 2014-01123 | 2014-01124 | 2014-01125 | 2014-01126 | 2014-01127 | 2014-01128; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Blissidae; genus: *Dimorphopterus*; specificEpithet: *bicoloripes*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-01-01; individualCount: 37; sex: 21 males, 16 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01129 | 2014-01130 | 2014-01131 | 2014-01132 | 2014-01133 | 2014-01134 | 2014-01135 | 2014-01136 | 2014-01137 | 2014-01138 | 2014-01139 | 2014-01140 | 2014-01141 | 2014-01142 | 2014-01143 | 2014-01144 | 2014-01145 | 2014-01146 | 2014-01147 | 2014-01148 | 2014-01149 | 2014-01150 | 2014-01151 | 2014-01152 | 2014-01153 | 2014-01154 | 2014-01155 | 2014-01156 | 2014-01157 | 2014-01158 | 2014-01159 | 2014-01160 | 2014-01161 | 2014-01162 | 2014-01163 | 2014-01164 | 2014-01165; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Family Lygaeidae Schilling, 1829

Nysius plebeius Distant, 1883

Materials

a. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: *plebeius*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01166 | 2014-01167; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: *plebeius*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality:

Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 8; sex: 2 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01168 | 2014-01169 | 2014-01170 | 2014-01171 | 2014-01172 | 2014-01173 | 2014-01174 | 2014-01175; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: *plebeius*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 3; sex: 3 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01176 | 2014-01177 | 2014-01178; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: *plebeius*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01179 | 2014-01180; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Nysius sp.

Materials

a. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01181 | 2014-01182 | 2014-01183; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 4; sex: 3 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01184 | 2014-01185 | 2014-01186 | 2014-01187; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 104; sex: 42 males, 62 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01188 | 2014-01189 | 2014-01190 | 2014-01191 | 2014-01192 | 2014-01193 | 2014-01194 | 2014-01195 | 2014-01196 | 2014-01197 | 2014-01198 | 2014-01199 | 2014-01200 | 2014-01201 | 2014-01202 | 2014-01203 | 2014-01204 | 2014-01205 | 2014-01206 | 2014-01207 | 2014-01208 | 2014-01209 | 2014-01210 | 2014-01211 | 2014-01212 | 2014-01213 | 2014-01214 | 2014-01215 | 2014-01216 | 2014-01217 | 2014-01218 | 2014-01219 | 2014-01220 | 2014-01221 | 2014-01222 | 2014-01223 | 2014-01224 | 2014-01225 | 2014-01226 | 2014-01227 | 2014-01228 | 2014-01229 | 2014-01230 | 2014-01231 | 2014-01232 | 2014-01233 | 2014-01234 | 2014-01235 | 2014-01236 | 2014-01237 | 2014-01238 | 2014-01239 | 2014-01240 | 2014-01241 | 2014-01242 | 2014-01243 | 2014-01244 | 2014-01245 | 2014-01246 | 2014-01247 | 2014-01248 | 2014-01249 | 2014-01250 | 2014-01251 | 2014-01252 | 2014-01253 | 2014-01254 | 2014-01255 | 2014-01256 | 2014-01257 | 2014-01258 | 2014-01259 | 2014-01260 | 2014-01261 | 2014-01262 | 2014-01263 | 2014-01264 | 2014-01265 | 2014-01266 | 2014-01267 | 2014-01268 | 2014-01269 | 2014-01270 | 2014-01271 | 2014-01272 | 2014-01273 | 2014-01274 | 2014-01275 | 2014-01276 | 2014-01277 | 2014-01278 | 2014-01279 | 2014-01280 | 2014-01281 | 2014-01282 | 2014-01283 | 2014-01284 | 2014-01285 | 2014-01286 | 2014-01287 | 2014-01288 | 2014-01289 | 2014-01290 | 2014-01291; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 45; sex: 31 males, 14 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01292 | 2014-01293 | 2014-01294 | 2014-01295 | 2014-01296 | 2014-01297 | 2014-01298 | 2014-01299 | 2014-01300 | 2014-01301 | 2014-01302 | 2014-01303 | 2014-01304 | 2014-01305 | 2014-01306 | 2014-01307 | 2014-01308 | 2014-01309 | 2014-01310 | 2014-01311 | 2014-01312 | 2014-01313 | 2014-01314 | 2014-01315 | 2014-01316 | 2014-01317 | 2014-01318 | 2014-01319 | 2014-01320 | 2014-01321 | 2014-01322 | 2014-01323 | 2014-01324 | 2014-01325 | 2014-01326 | 2014-01327 | 2014-01328 | 2014-01329 | 2014-01330 | 2014-01331 | 2014-01332 | 2014-01333 | 2014-01334 | 2014-01335 | 2014-01336; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01337; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Lygaeidae; genus: *Nysius*; specificEpithet: sp.; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 18; sex: 14 males, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01338 | 2014-01339 | 2014-01340 | 2014-01341 | 2014-01342 | 2014-01343 | 2014-01344 | 2014-01345 | 2014-01346 | 2014-01347 | 2014-01348 | 2014-01349 | 2014-01350 | 2014-01351 | 2014-01352 | 2014-01353 | 2014-01354 | 2014-01355; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Correspond to an undescribed species listed as "*Nysius* sp. 1" in Ishikawa et al. (2012).

Family Malcidae Stål, 1865

Chauliops fallax Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Malcidae; genus: *Chauliops*; specificEpithet: *fallax*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28/2013-04-29; individualCount: 6; sex: 1 male, 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01356 | 2014-01357 | 2014-01358 | 2014-01359 | 2014-01360 | 2014-01361; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Malcidae; genus: *Chauliops*; specificEpithet: *fallax*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12/2013-05-18; individualCount: 16; sex: 10 males, 6 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01362 | 2014-01363 | 2014-01364 | 2014-01365 | 2014-01366 | 2014-01367 | 2014-01368 | 2014-01369 | 2014-01370 | 2014-01371 | 2014-01372 | 2014-01373 | 2014-01374 | 2014-01375 | 2014-01376 | 2014-01377; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Malcidae; genus: *Chauliops*; specificEpithet: *fallax*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22/2013-06-23; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01378 | 2014-01379; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Malcidae; genus: *Chauliops*; specificEpithet: *fallax*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 5; sex: 1 male, 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01380 | 2014-01381 | 2014-01382 | 2014-01383 | 2014-01384; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Berytidae Fieber, 1851

Metacanthus pulchellus Dallas, 1852

Materials

a. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Metacanthus*; specificEpithet: *pulchellus*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01385; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Metacanthus*; specificEpithet: *pulchellus*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01386 | 2014-01387; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Yemma exilis Horváth, 1905

Materials

a. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: *exilis*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 9; sex: 7 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01388 | 2014-01389 | 2014-01390 | 2014-01391 | 2014-01392 | 2014-01393 | 2014-01394 | 2014-01395 |

2014-01396; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: ***exilis***; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01397 | 2014-01398 | 2014-01399; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: ***exilis***; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01400; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: ***exilis***; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16/2013-06-22; individualCount: 4; sex: 1 male, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01401 | 2014-01402 | 2014-01403 | 2014-01404; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: ***exilis***; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01405; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1905; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Berytidae; genus: *Yemma*; specificEpithet: ***exilis***; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01406; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Superfamily Pyrrhocoroidea Amyot et Serville, 1843

Family Largidae Amyot et Serville, 1843

Physopelta gutta (Burmeister, 1834)

Materials

a. namePublishedIn: 1834; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Largidae; genus: ***Physopelta***; specificEpithet: ***gutta***; scientificNameAuthorship: Burmeister; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-16; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01409; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1834; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Largidae; genus: ***Physopelta***; specificEpithet: ***gutta***; scientificNameAuthorship: Burmeister; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-29; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: N. Utsuki; otherCatalogNumbers: 2014-01410; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1834; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Largidae; genus: ***Physopelta***; specificEpithet: ***gutta***; scientificNameAuthorship: Burmeister; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01411; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Physopelta parviceps Blöte, 1931

Materials

a. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Largidae; genus: ***Physopelta***; specificEpithet: ***parviceps***; scientificNameAuthorship: Blöte; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01407; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1931; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Largidae; genus: *Physopelta*; specificEpithet: *parviceps*; scientificNameAuthorship: Blöte; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-20; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01408; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Pyrrhocoridae Amyot et Serville, 1843

Pyrrhocoris sibiricus Kuschakewitsch, 1866

Materials

a. namePublishedIn: 1866; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pyrrhocoridae; genus: *Pyrrhocoris*; specificEpithet: *sibiricus*; scientificNameAuthorship: Kuschakewitsch; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-03; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01412; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1866; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pyrrhocoridae; genus: *Pyrrhocoris*; specificEpithet: *sibiricus*; scientificNameAuthorship: Kuschakewitsch; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-19; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01413; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Superfamily Coreoidea Leach, 1815

Family Alydidae Amyot et Serville, 1843

Leptocorisa chinensis Dallas, 1852

Material

a. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Alydidae; genus: *Leptocorisa*; specificEpithet: *chinensis*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net

sweeping; eventDate: 2013-09-06; individualCount: 4; sex: 4 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01414 | 2014-01415 | 2014-01416 | 2014-01417; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Paraplesius vulgaris (Hsiao, 1964)

Materials

a. namePublishedIn: 1964; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Alydidae; genus: *Paraplesius*; specificEpithet: *vulgaris*; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01418 | 2014-01419; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1964; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Alydidae; genus: *Paraplesius*; specificEpithet: *vulgaris*; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01420; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Riptortus pedestris (Fabricius, 1775)

Materials

a. namePublishedIn: 1775; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Alydidae; genus: *Riptortus*; specificEpithet: *pedestris*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01421; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1775; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Alydidae; genus: *Riptortus*; specificEpithet: *pedestris*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 male; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01422; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Rhopalidae Amyot et Serville, 1843

Liorhyssus hyalinus (Fabricius, 1794)

Materials

a. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Liorhyssus*; specificEpithet: *hyalinus*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01423; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Liorhyssus*; specificEpithet: *hyalinus*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01424; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Liorhyssus*; specificEpithet: *hyalinus*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 3; sex: 3 males; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01425 | 2014-01426 | 2014-01427; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Liorhyssus*; specificEpithet: *hyalinus*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-09-06; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01428; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Liorhyssus*; specificEpithet: *hyalinus*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude:

35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01429; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Rhopalus maculatus (Fieber, 1837)

Material

a. namePublishedIn: 1837; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Rhopalus*; specificEpithet: *maculatus*; scientificNameAuthorship: Fieber; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01430; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Stictopleurus punctatonervosus (Goeze, 1778)

Materials

a. namePublishedIn: 1778; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Stictopleurus*; specificEpithet: *punctatonervosus*; scientificNameAuthorship: Goeze; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01431; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1778; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Rhopalidae; genus: *Stictopleurus*; specificEpithet: *punctatonervosus*; scientificNameAuthorship: Goeze; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01432 | 2014-01433 | 2014-01434; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Coreidae Leach, 1815

Acanthocoris sordidus (Thunberg, 1783)

Materials

a. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Acanthocoris*; specificEpithet: *sordidus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01435; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Acanthocoris*; specificEpithet: *sordidus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-05-01; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01436 | 2014-01437; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Cletus punctiger (Dallas, 1852)

Material

a. namePublishedIn: 1852; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *punctiger*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01441; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Cletus schmidti Kiritshenko, 1916

Materials

a. namePublishedIn: 1916; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *schmidti*; scientificNameAuthorship: Kiritshenko; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 1; sex: 1 female; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01442; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1916; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *schmidti*; scientificNameAuthorship: Kiritshenko; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-25; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01443; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1916; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *schmidti*; scientificNameAuthorship: Kiritshenko; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01444; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1916; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *schmidti*; scientificNameAuthorship: Kiritshenko; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01445; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1916; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Cletus*; specificEpithet: *schmidti*; scientificNameAuthorship: Kiritshenko; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 4; sex: 2 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01446 | 2014-01447 | 2014-01448 | 2014-01449; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Homoeocerus unipunctatus (Thunberg, 1783)

Materials

a. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Homoeocerus*; specificEpithet: *unipunctatus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28; individualCount: 1; sex: 1 female; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01450; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Homoeocerus*; specificEpithet: *unipunctatus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12/2013-05-18; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01451 | 2014-01452; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Homoeocerus*; specificEpithet: *unipunctatus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01453; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1783; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Homoeocerus*; specificEpithet: *unipunctatus*; scientificNameAuthorship: Thunberg; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01454; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Leptoglossus occidentalis Heidemann, 1910

Material

a. namePublishedIn: 1910; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Leptoglossus*; specificEpithet: *occidentalis*; scientificNameAuthorship: Heidemann; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-28; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01438; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: Known as a recent alien species to Japan (Tokyo) (Ishikawa and Kikuhara 2009).

Paradasynus spinosus Hsiao, 1963

Material

a. namePublishedIn: 1963; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Coreidae; genus: *Paradasynus*; specificEpithet: *spinosus*; scientificNameAuthorship: Hsiao; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01439 | 2014-01440; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Superfamily Pentatomoidea Leach, 1815

Family Plataspidae Dallas, 1851

Megacopta punctatissima (Montandon, 1896)

Materials

a. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Plataspidae; genus: *Megacopta*; specificEpithet: *punctatissima*; scientificNameAuthorship: Montandon; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28/2013-04-29; individualCount: 7; sex: 5 males, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01455 | 2014-01456 | 2014-01457 | 2014-01458 | 2014-01459 | 2014-01460 | 2014-01461; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Plataspidae; genus: *Megacopta*; specificEpithet: *punctatissima*; scientificNameAuthorship: Montandon; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12/2013-05-18; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01462 | 2014-01463 | 2014-01464; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Plataspidae; genus: *Megacopta*; specificEpithet: *punctatissima*; scientificNameAuthorship: Montandon; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01465; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1896; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Plataspidae; genus: *Megacopta*; specificEpithet: *punctatissima*; scientificNameAuthorship: Montandon; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01466; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Cydnidae Billberg, 1820

Adomerus triguttulus (Motschulsky, 1866)

Material

a. namePublishedIn: 1866; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Adomerus*; specificEpithet: *triguttulus*; scientificNameAuthorship: Motschulsky; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-05-01; individualCount: 5; sex: 3 males, 2 females; lifeStage: adult; recordedBy: K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01477 | 2014-01478 | 2014-01479 | 2014-01480 | 2014-01481; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Adrisa magna (Uhler, 1860)

Materials

a. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Adrisa*; specificEpithet: *magna*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-14; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01469; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1860; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Adrisa*; specificEpithet: *magna*; scientificNameAuthorship: Uhler; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-05-01; individualCount: 1; sex: 1 female; lifeStage: adult;

recordedBy: M. Saito; otherCatalogNumbers: 2014-01470; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Chilocoris confusus Horváth, 1919

Material

a. namePublishedIn: 1919; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Chilocoris*; specificEpithet: *confusus*; scientificNameAuthorship: Horváth; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: Berlese funnel; eventDate: 2013-11-28; individualCount: 2; sex: 2 males; lifeStage: adult; recordedBy: T. Ishikawa & K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01467 | 2014-01468; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Macroscytus japonensis Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Macroscytus*; specificEpithet: *japonensis*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-04; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01471; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Macroscytus*; specificEpithet: *japonensis*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-17/2013-06-23; individualCount: 2; sex: 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01472 | 2014-01473; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Macroscytus*; specificEpithet: *japonensis*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-31; individualCount: 1; sex: 1 female; lifeStage: adult;

recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01474; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Macroscytus*; specificEpithet: *japonensis*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: Berlese funnel; eventDate: 2013-11-28; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa & K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01475; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Microporus nigrita (Fabricius, 1794)

Material

a. namePublishedIn: 1794; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Cydnidae; genus: *Microporus*; specificEpithet: *nigrita*; scientificNameAuthorship: Fabricius; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-08; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01476; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Scutelleridae Leach, 1815

Poecilocoris lewisi (Distant, 1883)

Materials

a. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Scutelleridae; genus: *Poecilocoris*; specificEpithet: *lewisi*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-22; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01482; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1883; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Scutelleridae; genus: *Poecilocoris*; specificEpithet: *lewisi*; scientificNameAuthorship: Distant; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01483; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Pentatomidae Leach, 1815

Aelia fieberi Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: ***Aelia***; specificEpithet: ***fieberi***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12; individualCount: 7; sex: 4 males, 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01486 | 2014-01487 | 2014-01488 | 2014-01489 | 2014-01490 | 2014-01491 | 2014-01492; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: ***Aelia***; specificEpithet: ***fieberi***; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01493 | 2014-01494 | 2014-01495; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Dolycoris baccarum (Linnaeus, 1758)

Materials

a. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: ***Dolycoris***; specificEpithet: ***baccarum***; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-23; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01524; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: ***Dolycoris***; specificEpithet: ***baccarum***; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 4; sex: 3 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01525 | 2014-01526 | 2014-01527 | 2014-01528; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Dybowskyia reticulata (Dallas, 1851)

Material

a. namePublishedIn: 1851; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Dybowskyia*; specificEpithet: *reticulata*; scientificNameAuthorship: Dallas; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-18; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01529; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Eysarcoris annamita Breddin, 1909

Materials

a. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Eysarcoris*; specificEpithet: *annamita*; scientificNameAuthorship: Breddin; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01484; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1909; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Eysarcoris*; specificEpithet: *annamita*; scientificNameAuthorship: Breddin; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2014-05-01; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01485; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Glaucias subpunctatus (Walker, 1867)

Materials

a. namePublishedIn: 1867; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Glaucias*; specificEpithet: *subpunctatus*; scientificNameAuthorship: Walker; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01519; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1867; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Glaucias*; specificEpithet: ***subpunctatus***; scientificNameAuthorship: Walker; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-21; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01520; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1867; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Glaucias*; specificEpithet: ***subpunctatus***; scientificNameAuthorship: Walker; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-10-28; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01521; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1867; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Glaucias*; specificEpithet: ***subpunctatus***; scientificNameAuthorship: Walker; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2014-02-19; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Kato; otherCatalogNumbers: 2014-01522; identifiedBy: T. Ishikawa; dateIdentified: 2014; institutionCode: KMUT; collectionCode: IC

Halyomorpha halys (Stål, 1855)

Materials

a. namePublishedIn: 1855; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Halyomorpha*; specificEpithet: *halys*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-14; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01513; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1855; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Halyomorpha*; specificEpithet: *halys*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-19; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01514 | 2014-01515; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1855; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Halyomorpha*; specificEpithet: *halys*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01516; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1855; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Halyomorpha*; specificEpithet: *halys*; scientificNameAuthorship: Stål; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 2; sex: 1 male, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01517 | 2014-01518; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Nezara viridula (Linnaeus, 1758)

Material

a. namePublishedIn: 1758; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Nezara*; specificEpithet: *viridula*; scientificNameAuthorship: Linnaeus; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-12-01; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Iwasaki; otherCatalogNumbers: 2014-01523; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Notes: First record in Tokyo.

Plautia stali Scott, 1874

Materials

a. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-04-28/2013-05-01; individualCount: 3; sex: 3 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01496 | 2014-01497 | 2014-01498; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

b. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*;

scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-05-12/2013-05-18; individualCount: 3; sex: 2 males, 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01499 | 2014-01500 | 2014-01501; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

c. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-05-23; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01502; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

d. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-06-18; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01503; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

e. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: light trap; eventDate: 2013-08-02; individualCount: 5; sex: 5 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01504 | 2014-01505 | 2014-01506 | 2014-01507 | 2014-01508; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

f. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 3; sex: 1 male, 2 females; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01509 | 2014-01510 | 2014-01511; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

g. namePublishedIn: 1874; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Pentatomidae; genus: *Plautia*; specificEpithet: *stali*; scientificNameAuthorship: Scott; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.;

minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: Berlese funnel; eventDate: 2013-11-28; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa & K. Kishimoto-Yamada; otherCatalogNumbers: 2014-01512; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Family Acanthosomatidae Signoret, 1864

Acanthosoma denticaudum Jakovlev, 1880

Material

a. namePublishedIn: 1880; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Acanthosomatidae; genus: *Acanthosoma*; specificEpithet: *denticaudum*; scientificNameAuthorship: Jakovlev; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-08-15; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01530; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Acanthosoma giganteum Matsumura, 1913

Material

a. namePublishedIn: 1913; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Acanthosomatidae; genus: *Acanthosoma*; specificEpithet: *giganteum*; scientificNameAuthorship: Matsumura; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 male; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01531; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Sastragala esakii Hasegawa, 1959

Material

a. namePublishedIn: 1959; kingdom: Animalia; phylum: Arthropoda; class: Insecta; order: Hemiptera; family: Acanthosomatidae; genus: *Sastragala*; specificEpithet: *esakii*; scientificNameAuthorship: Hasegawa; country: Japan; stateProvince: Tokyo; municipality: Meguro-ku; locality: The University of Tokyo Campus, Komaba.; minimumElevationInMeters: 31; maximumElevationInMeters: 39; decimalLatitude: 35.66006; decimalLongitude: 139.68521; geodeticDatum: WGS84; samplingProtocol: net sweeping; eventDate: 2013-10-30; individualCount: 1; sex: 1 female; lifeStage: adult; recordedBy: T. Ishikawa; otherCatalogNumbers: 2014-01532; identifiedBy: T. Ishikawa; dateIdentified: 2013; institutionCode: KMUT; collectionCode: IC

Analysis

Cluster analysis based on Jaccard distances revealed two major assemblage groups; one consisted of highly to moderately urbanized localities (Meiji Jingu, Akasaka Imperial Gardens, Imperial Palace, Mizumoto Park, and the campus) and the other of suburbanized localities (Kusabana Hills and Ome City) (Fig. 7).

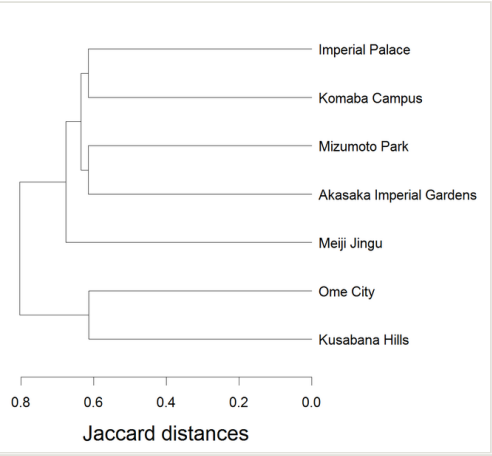

Figure 7.

Cluster analysis of Heteroptera assemblages in Komaba Campus and the six reference sites based on Jaccard distances.

Discussion

In our qualitative survey, we recorded 115 species of Heteroptera on the Komaba Campus of the University of Tokyo (Table 2). The species richness at campus locations tends to be higher than that of other references sites (Table 1), even though the campus is situated in an urban area within the center of Tokyo and has the smallest area of all sites. The rich campus vegetation presumably derived from effective landscaping managements. These activities may have enhanced heteropteran species diversity. It is, however, possible that the surveys for the majority of reference sites were insufficient, both in terms of quantity and quality, resulting in the relatively low documented species richness. Faunal surveys are often affected by biases related to season, research frequency, collection method, and sampling effort (Tomokuni 2005). More intensive surveys may reveal similar species richness to that of the campus, even in green spaces in highly urbanized zones.

Cluster analysis of assemblages revealed two major groups (Fig. 7). This indicates that the heteropteran fauna detected on the campus was more similar to those of highly urbanized localities than to those of suburbanized localities. However, the analysis also indicated differences in species composition among the five urbanized localities, including the

campus (Fig. 7), irrespective of the distance between the respective urbanized localities, even for the closest two locations, the campus and Meiji Jingu. The differences might reflect that each of the green spaces has a peculiar ecosystem in terms of the heteropteran fauna. However, it is also necessary to consider the relative sufficiency of the surveys for accurately evaluating the urban faunae and ecosystems. Further surveys will clarify the attributes of the urban fauna and biodiversity, and suggest appropriate, sustainable urbanization, or exploitation.

Acknowledgements

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