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Papers on Trichoptera presented at the Third All-Russia Symposium on Amphibiotic and Aquatic (Venevitinovo Biological Center Voronezh State University, September 12-15, 2006).

Stanislav I. MELNITSKY

Чайка с.ю. Морфология Акентьева H.A., хеморецепторных органов водных личинок насекомых // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, Воронежский государственный университет, 2007. 409 c. C. 22-27.

[Akentyeva N.A., Chaika S.Yu. Morphology chemosensory organs in aquatic larvae of insects // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 22-27.1

The morphological peculiarities of the sensory organs of antennae and mouth-parts in larvae of the amphibious insects with complete metamorphosis are studied with scanning electron microscope: the caddisfly Limnephilus centralis Curt. (Trichoptera, Limnephilidae), the mosquito Culex pipiens L. (Diptera, Culicidae) and the drone fly Eristalis sp. (Diptera, Syrphidae). postembryonal development of the sensory organs is traced. Bibliogr. 3. Fig. 2.

Барабанова А.А., Жуковская М.И., Иванов В.Д., октопамина Мельницкий С.И. Влияние антеннальные ответы Phryganea grandis у Phryganeidae) // Проблемы (Trichoptera, энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 30-36.

[Barabanova A.A, Zhukovskaya M.I., Ivanov V.D., Melnitsky S.I. Octopamine influence to the antennal responses in Phryganea grandis L. (Trichoptera, Phryganeidae) // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia - Воронеж, 2007. - С. 74-84. Symposium on Amphibiotic and Aquatic Insects. -Voronezh, 2007. - P. 30-36.]

Octopamine influences the antennal sensitivity in the caddisfly species *Phryganea grandis* under experimental conditions: injections reduce the EAD response to hexan-1ol stimulation in males and do not affect females. The antennae are more sensitive to this volatile chemical in males than in females. Similar sex-specific effect of octopamine was earlier found in Lepidoptera, but not original samplings and materials from the Zoological recorded in Blattodea so far.

Bibliogr. 5. Fig. 3.

Барышев И.А. Суточная динамика вылета ручейников Agapetus ochripes Curt. и Hydroptila tineoides Dalm. в реке Индера (Кольский полуостров, Россия) // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - C. 37-39.

[Baryshev I.A. Daily dynamics of adult emergence of caddisflies Agapetus ochripes Curt. and Hydroptila tineoides Dalm. in the Indera River (Kola Peninsula, Russia) // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 37-39.1

The daily dynamics of the adult emergence of the caddisflies Agapetus ochripes Curt. and Hydroptila tineoides Dalm, were studied in the Indera River, located near the Polar Circle. In the first half of June, adults of Agapetus ochripes emerge only in the afternoon; at the beginning of July Hydroptila tineoides adult emergence occurred, being bimodal, with the second peak after sunset. After leaving from the pupal cocoons, the caddisflies went upward and reached the bank on the surface of water.

Bibliogr. 12. Fig. 1.

Гигиняк И.Ю. Видовое разнообразие и биотопическая приуроченность личинок ручейников (Trichoptera) в озерных и речных экосистемах центральной и северной частей Беларуси // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 58-65.

[Giginyak I.Yu. Species diversity and biotopic preferences of Trichortera larvae in lacustrine and riverine ecosystems of central and northern parts of Belarus // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 58-65.]

The specific variety of caddisfly larvae in 17 rivers and 17 lakes, different in morphometric characteristics and the degree of anthropogenous influence of central and northern parts of Belarus, was studied. Collected and identified specimens belonged to 42 species from 7 families. The Sorensen-Czekanowski index between lakes and rivers Ha is 0,196. The correlation between caddisfly species number and the coefficient of a coast indentation, and the correlation водной of species number and the chromaticity of water are shown.

Bibliogr. 4. Fig. 2. Tabl. 3.

Григоренко В.Н., Иванов В.Д., Мельницкий С.И. Новые данные по фауне ручейников (Trichoptera) Кавказа // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым.

IGrigorenko V.N., Ivanov V.D., Melnitsky S.I. New data on the fauna of caddisflies (Trichoptera) of the Caucasus // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 74-84.1

Additions to the Trichoptera fauna of the Caucasus are given and faunistic changes are listed according to both Institute of the Russian Academy of Sciences. Altogether 37 species are discussed; some faunistic changes are made on the basis of recent publications.

Bibliogr. 35.

Данькова Н.В., Иванов В.Д. Фауна ручейников 2007. - C. 87-95.

[Dankova N.V., Ivanov V.D. Fauna of caddisflies (Trichoptera) of rivers of the Kola Peninsula // Questions of aquatic entomology of Russia and adjacent lands: Materials Kopnoyxona Aquatic Insects. - Voronezh, 2007. - P. 87-95.]

authors' collections and materials from the Zoological Материалы III Всероссийского literature records, includes 80 species from 18 families. 2007. - C. 149-152. Maximum species diversity is in the families Limnephilidae [Kornoukhova I.I. Geographical preconditions of the (21 species), Leptoceridae (10) and Hydropsychidae (8).

Bibliogr. 12. Tabl. 1.

России и сопредельных стран: Материалы Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 120-125. [Zaika V.V. The caddisflies (Trichoptera) of Tuva and

Russia Symposium on Amphibiotic and Aquatic Insects. -Voronezh, 2007. – P. 120-125.]

A checklist of the species of caddisflies Tuva Republic and northwestern Mongolia is given.

Bibliogr. 15.

Иванов В.Д. Структура, функции и эволюция крыловых structurally belong. сочленений ручейников Проблемы // энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 132-139.

[Ivanov V.D. Structure, function and evolution of wing articulations in caddisflies // Questions of aquatic Third All-Russia Symposium on Amphibiotic and Aquatic 2007. - C. 152 -158. Insects. - Voronezh, 2007. - P. 132-139.]

Structural and functional analysis of wing articulations in caddisflies reveals specific characters at the family level. Evolution of the articulation is functionally dependent on and influenced by the wing coupling in flight. The evolutionary trends, taxonomic significance of the wing articulations in caddisflies, and the fossil evidence are discussed.

Bibliogr. 16. Fig. 1.

Иванчева E.Ю. Распределение Trichoptera по типам водоёмов и влияние гидрологического режима на их жизнедеятельность в условиях Окского заповедника // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым, - Воронеж. 2007. - C. 140-144.

[Ivancheva E.Yu. The allocation of Trichoptera in different water bodies and the influence of hydrological conditions on their vitality in the Okskiy Reserve // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 140-144.]

The study was performed in May-July 1990-1997 (Trichoptera) рек Кольского полуострова // Проблемы in the Okskiy Reserve and the adjacent territory. The водной энтомологии России и сопредельных стран: allocation of Trichoptera in different types of water bodies Материалы III Всероссийского симпозиума по was analyzed. It was found that the level and the speed of амфибиотическим и водным насекомым. - Воронеж, flood have a maximum influence on the vitality of caddisflies.

Bibliogr. 6. Tabl. 1.

И.И. Географические предпосылки of the Third All-Russia Symposium on Amphibiotic and генезиса фаун ручейников (Trichoptera) Большого Кавказа и Закавказского нагорья и сопоставление Data on the fauna of caddisflies (Trichoptera) of 13 систематического состава этих фаун // Проблемы rivers of the Kola Peninsula are provided on the basis of the водной энтомологии России и сопредельных стран: симпозиума Institute RAS. The total checklist of caddisflies, with амфибиотическим и водным насекомым. - Воронеж,

genesis of caddisfly (Trichoptera) faunas of the Big Caucasus and Transcaucasian mountains and comparison of their systematic composition // Questions of aquatic Заика В.В. Ручейники (Trichoptera) Тувы и Северо- entomology of Russia and adjacent lands: Materials of the Западной Монголии // Проблемы водной энтомологии Third All-Russia Symposium on Amphibiotic and Aquatic III Insects. - Voronezh, 2007. - P. 149 -152.]

The main features of the geographical preconditions of the genesis of the Caucasus caddisfly fauna and the regular structure of the faunas of Trichoptera of northwestern Mongolia // Questions of aquatic entomology mountain areas of the Caucasus (the Big Caucasus and the of Russia and adjacent lands: Materials of the Third All- Transcaucasian mountains) are considered. In both faunas, the quantity of genera and species is similar, whereas their composition is very different. The historical distinction of the geographic preconditions of the Caucasus mountain (Trichoptera) of the principal river basin systems of the fauna formation is emphasized for the first time: West Asia strongly influenced all the Caucasus fauna, but its Transcaucasian part initiated as a component of the fauna of West Asia, to which the Transcaucasian mountains

Bibliogr. 2. Tabl. 1.

Корноухова И.И., Хазеева Л.А. Амфибиотические насекомые бассейна реки Урух (Северный Кавказ) // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по entomology of Russia and adjacent lands: Materials of the амфибиотическим и водным насекомым. - Воронеж,

[Kornoukhova I.I., Khazeyeva L.A. Amphibiotic insects of the Urukh river basin (Nothern Caucasus) // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 152 - 158.]

The basic features of the systematic structure and ecological conditions of the distribution of representatives of four groups of amphibiotic insects (Ephemeroptera, Plecoptera. Trichoptera and Diptera) in the river basin of the Urukh, left-hand tributary of the Terek, are considered. It is found that the brook fauna is the most developed and that the fauna of the lower reaches of the Urukh is reduced in general.

Bibliogr. 2. Fig. 1. Tabl. 1.

Мельницкий С.И. Ультраструктура стернальных феромонных желез Trichoptera // Проблемы Protomeropidae (Trichoptera, Protomeropina) и их место в водной энтомологии России и сопредельных стран: системе насекомых // Проблемы водной энтомологии Материалы III амфибиотическим и водным насекомым. - Воронеж, Всероссийского симпозиума по амфибиотическим и 2007. - C. 192-203.

[Melnitsky S.I. Cell ultrastructure of sternal pheromone [Sukatsheva I.D. Permian caddisflies of the family glands in Trichoptera // Questions of aquatic entomology of Protomeropidae (Trichoptera, Protomeropina) and their Russia and adjacent lands: Materials of the Third All-Russia place in the insect system // Questions of aquatic Symposium on Amphibiotic and Aquatic Insects. - entomology of Russia and adjacent lands: Materials of the Voronezh, 2007. – P. 192-203.]

Recent Trichoptera and primitive Lepidoptera are Insects. - Voronezh, 2007. - P. 350-355.] characterized by the presence of sternal glands that secrete pheromones on the fourth and fifth abdominal segments. Trichoptera known from the Permian (250 myr). It The fine structure of these glands is described for the first comprises four extinct families, of which Protomeropidae is time. The ultrastructure of cells of the pheromone glands of discussed here. Members of this family have homonomous the fifth abdominal segment of caddisflies is analysed in wings with rich non-specialized venation. The morphology both sexes of Rhyacophila obliterata (Rhyacophilidae) and of numerous new and previously known fossils demonstrate Chaetopteryx villosa (Limnephilidae), which have the first the significant similarity of Protomeropidae to the basal and the third morphological type of sternal glands, Mecoptera, respectively. The paired sternal glands consist of a cuticular Amphiesmenoptera to the basal Neuroptera (rather than to saccular reservoir and three types of cells: cells of Neuropteroidea as a whole). hypoderm, terminal secretory cells, and canal cells. The secretory and canal cells in the aggregate form a complicated cell complex, in which secretory cells produce Хатухов А.М., Якимов А.В. К познанию фауны the secretion, while the canal cells form the receiving and conducting cuticular canals. These ducts provide the canal cell discharge of the secretion into the cavity of the gland's reservoir. Comparative analysis of the ultrastructure of симпозиума по амфибиотическим и водным насекомым. pheromone gland cells reveals considerable differences in - Воронеж, 2007. - С. 359 -363. cell structure among the studied species.

Bibliogr. 26. Fig. 1. Tabl. 1.

Наумова Н.В., Сиренко А.Г. Дополнение к фауне Trichoptera Восточных Карпат // Проблемы водной энтомологии России и сопредельных стран: Материалы Voronezh, 2007. - Р. 359-363.] III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 218-221.

[Naumova N.V., Sirenko A.G. Additions to the fauna of Trichoptera of the eastern Carpathians // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 218 - 221.

In the course of a study of the fauna of the Trichoptera (Insecta, Arthropoda) of the Gorgan mountains, eastern Carpathians, in 2000-2005, 14 species of Trichoptera were recorded. 2 of them are new to the fauna of the Carpathians and 1 is new to the Ukraine.

Bibliogr. 21, Tabl. 1.

Самохвалов В.Л. Учет численности и характер распределения личинок Grensia praeterita McL. в литорали озера Джека Лондона (Магаданская область, Верхняя Колыма) // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - С. 292-295.

[Samokhvalov V.L. Records of the number and character of allocation of Grensia praeterita McL. larvae in the littoral of Jack London Lake (Magadan Area, Upper Kolyma) // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 292-295.]

The results of recording larvae by instruments in different working areas are discussed. Changes of the basic parameter of abundance, depending on the surveyed area, are shown.

Bibliogr. 1. Fig. 2. Tabl. 1.

клеток Сукачева И.Д. Пермские ручейники семейства Всероссийского симпозиума по России и сопредельных стран: Материалы III водным насекомым. - Воронеж, 2007. - С. 350-355.

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The Protomeropina is the oldest suborder of and furthermore, of the basal

Bibliogr. 9. Fig. 2.

(Trichoptera) ручейников Кабардино-Балкарской республики // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского

[Khatukhov A.M., Yakimov A.V. A contribution to the knowledge of the caddisflies (Trichoptera) of the Kabardino-Balkariya Republic // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. -

A checklist of 36 species of caddisflies that occur in Kabardino-Balkariya is given; collection localities and the number of specimens are indicated. The highest caddisfly diversity is observed in the zone of groundwater discharge in the foothill forest-steppe (Chernorechenskiye Springs).

Bibliogr. 4. Tabl. 1.

Шубина В.Н. Ручейники (Trichoptera) в бентосе водотоков бассейна верхнего течения Печоры // Проблемы водной энтомологии России и сопредельных стран: Материалы III Всероссийского симпозиума по амфибиотическим и водным насекомым. - Воронеж, 2007. - C. 380-385.

[Shubina V.N. Trichoptera in the benthos of the upper Pechora river basin streams // Questions of aquatic entomology of Russia and adjacent lands: Materials of the Third All-Russia Symposium on Amphibiotic and Aquatic Insects. - Voronezh, 2007. - P. 380-385.]

Trichopterans are widespread in the benthos of the upper Pechora river basin streams. The list of Trichoptera of this territory's streams includes 27 species from 13 families. The European and Palaearctic species along with some northern elements predominate in the Trichoptera fauna.

Bibliogr. 3. Tabl. 2.

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