

**FAUNA BEETLES (COLEOPTERA; INSECTA) OF ECOTONE «WATER EDGE»
OF THE RIGHT BANK OF «BELAYA» RIVER OF NEIGHBORHOOD OF THE VILLAGE OF THE
DAKHOVSKY REPUBLIC OF ADYGEYA**

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ABSTRACT

The research results of neritic fauna of Coleoptera of the Belaya River in the Maikop area of the Republic of Adygea are given in the article. The faunistic list of Coleoptera is submitted. Representatives of studied Coleoptera complex are divided into ecological groups. Atheta (s. str.) pseudotenera Cameron, 1933 (Staphylinidae) – the new find for the Caucasus and the South of Russia.

Keywords: neritic coleoptera, fauna, Adygea, Belaya River, ecotones.

INTRODUCTION

The coast site where researches were conducted, has the following features. The coast with heights from 0,5 to 6 m, places cool, sandy with taluses, is populated with colonies (*Riparia riparia* Linne, 1758) and (*Merops apiaster* Linne, 1758). Insolation good, a zateneniye isn't observed by wood plants. The bottom on the coast sandy becomes farther from the coast gradually the oozy. Current in places of collecting a material moderate or strong, river width on the average 10-15 meters. The water vegetation practically is absent.

Studying of marginal structures of biocenoses, such as ecoton water land systems, still is at a stage of accumulation of information therefore research of water and land ecotones is actual and expedient. Coleoptera as the integral element practically all biocenoses, play an indisputable role in ecological communities, serve as an important factor in substance and energy transfer. The material gathered in May, 2005-2013 in a neighborhood of the village of Dakhovskaya by the standard techniques: manual collecting, slopping, and installation of soil traps directly near water (fig.1-3). In total it was fulfilled 2500 traps / days, about 1000 ex. to 6 families, to 17 genus relating to 20 species of Coleoptera group are collected. Casual finds, for example drift by a wind aren't given in work or having washed away water of types which don't live at water edge: families Chrysomelidae, Tenebrionidae and other families.

Results will be coordinated with data of sources: [1-9]. We give the received results below:

Sphaeriusidae: *Sphaerius acaroids* Waltl, 1838 [8,9].

Carabidae: *Nebria (Nebria) brevicollis* (Fabricius, 1792); *Notiophilus (Notiophilus) rufipes* Curtis, 1829; *Carabus (Microplectes) convallium* (Starck, 1889); *Carabus (Archiplectes) starcki* (Heyden, 1885); *Carabus (Archiplectes) miroshnikovi* Zamotajlov, 1990; *Elaphrus (Elaphroterus) aureus* P. Muller, 1821, *Clivina collaris* (Herbst, 1784); *Bembidion (Chlorodium) splendidum* Sturm, 1825 (*luteipes* Motschulsky subspecies, 1844); *Omophron* (s. str.) *limbatum* (Fabricius, 1777) [5].

Hydrophilidae: *Sphaeridium scarabaeoides* (Linnaeus, 1758); *Cercyon (Cercyon) strandi* Roubal, 1938 [1,8,9].

Sphaeritidae: *Sphaerites glabratus* Fabricius, 1792 [1,8,9].

Staphylinidae: *Bledius gigantulus* (Scudder, 1890), *Paederidus rubrothoracicus* (Goeze, 1777); *Paederidus ruficollis* (Fabricius, 1777); *Paederidus fuscipes* Curtis, 1826; *P. (P.) littoralis* Gravenhorst, 1802; *P. (P.) riparius* (Linnaeus, 1758); *Astenus pulchellus* (Heer, 1839); *Stenus biguttatus* Linnaeus, 1758 [8,9]; *Atheta* (s. str.) *pseudotenera* Cameron, 1933. New species of the Caucasus.



Figs. 1-3.- Belaya River. village of the Dakhovskiy Republic of Adygeya. (1-2 photos: biotopes by S.V. Pushkin); 3 - Map 1- Republic of Adygeya (Russia). In a red circle, the sampling area.

Heteroceridae: *Heterocerus fossor* Kiesenwetter, 1843 [1].

Rather small amount of types can be explained with absence shipped water plants, and also quite big sites of the coast deprived of vegetation. Sand as a substratum creates very specific environment for existence of the Coleoptera, demanding certain adaptive properties (*Omophron* (s. str.) *limbatum* (Fabricius, 1777) [5], *Nebria* (*Nebria*) *brevicollis* (Fabricius, 1792); *Notiophilus* (*Notiophilus*) *rufipes* Curtis, 1829). Considerable part in selection of soil traps make ground beetles: *Carabus* (*Microplectes*) *convallium* (Starck, 1889); *Carabus* (*Archiplectes*) *starcki* (Heyden, 1885); *Carabus* (*Archiplectes*) *miroshnikovi* Zamotajlov, 1990, etc. which makes daily migrations: at night to the river bank, and in the morning in depth of the coast. Active predators of *Elaphrus* (*Elaphroterus*) *aureus* P. Muller, 1821 (*tschitscherini* Semenov subspecies, 1898) meet in each selection, however their number low.

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