

Section 2. Fauna of terrestrial ecosystems

The high recreational pressure and building on the Black Sea coast which took place in several last years can change and reduce fauna of Coleoptera of the spits.

From the 2000 to 2009 years we investigated the fauna of Coleoptera of the sand spits of Odessa region (spits of Dnister estuary, Tiligul estuary, Budak estuary, lakes Alibej, Burnas, Shagany, Sasyk). We used different standard entomological methods for material collection.

It was found that fauna of Coleoptera on sand spits is poor, but among some families of beetles, such as Cicindellidae, Carabidae, Histeridae, Scarabaeidae, Elateridae, Anthicidae, Tenebrionidae, Chrysomelidae, Curculionidae, there are species in the North-Western part of Black Sea live only here. Darkling beetles and scarabs beetles both include especially many types. There are *Phaleria pontica* (Semenov, 1901), *Ammobius rufus* (Lucas, 1849), *Trachyscelis aphodioides* Latreille, 1809, *Melanimon tibialis* (Fabricius, 1781), *Glaresis rufa* Erichson, 1848, *Psammobius* ssp., *Polyphylla fullo* (Linnaeus, 1758), *Anoxia orientalis* (Krynicky, 1832), *Anomala dubia* (Scopoli, 1763), *A. errans* (Fabricius, 1775). In such families of beetles, weevils and leaf beetles as a basis of species composition on sand spits constitute evribionts or steppe forms, the proportion of species stenobionts is low. Among some families of beetles species confined to sandy spits was not discovered.

Despite the incompleteness of the research, now we can say that the coastal spit significantly increase the diversity of fauna of Coleoptera in North-Western Black Sea. Parts of these areas should be given conservation status, as well as anthropogenic pressures adversely affect the composition of fauna of Coleoptera. This is well illustrated by the sand spit of Dnestrovsky estuary, where buildings and trampling significantly affected the species composition of beetles in some coastal areas. At the same time fauna of Coleoptera of sand spit Budak estuary and lakes Alibej, Burnas, Shagany, Sasyk despite the occasional passing car on the dunes and coastal pollution garbage, human activity has little effect because the built-up does not occurring.

ABOUT FAUNA OF COLEOPTERA ON THE SAND SPITS IN THE NORTH-WESTERN PART OF THE BLACK SEA SHORE

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One of the components, which conditions landscape diversity of the South of Ukraine, is sand spits - the deposition landform found off coasts. Sand spit (or peresyp) is a narrow strip of land dividing estuaries or lakes from the sea. That land has poor but very peculiar flora and fauna.

The fauna of insects (fauna of Coleoptera inclusive) of sand spits in the North-Western part of Black Sea is insufficiently explored unlike the fauna of sand spits and island of the Black Sea and Azov Sea (Kinburn Spit, Tender Spit, Berdyansk Spit, Biryuchy Spit, Jarylgach Island).