

# ABSTRACTS

## 10<sup>th</sup> EUROPEAN CONFERENCE ON ECHINODERMS

Borissiak Paleontological Institute RAS  
Moscow  
September 16–19, 2019





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## INFORMATION RETRIEVAL SYSTEM ON THE RESEARCH ECHINODERM COLLECTION OF THE ZOOLOGICAL INSTITUTE RAS [poster]

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For the first time Fyodor Fyodorovich Brandt (Johann Friedrich von Brandt) (1802–1879) – the founder and first director of the Zoological museum has processed materials on echinoderms collected by A.K. Mertens, during global cruise. From 1895 up to 1897 the echinoderm collection alongside with sponges, cnidarian, worms, crustacean, etc. was registered behind the Department of the others invertebrates. In 1897 echinoderms have attributed to Mollusk-zoological, III Department. 105 years ago Alexander Mikhailovich Djakonov (1886–1956) in 1914 has created and headed the Echinoderm Department – V Department of Invertebrate animals and remained its chief up to the end of a life.

The echinoderm collection of the Department totals more than 25000 units of storage and is divided into systematic and non-identified. The systematic part of the collection is stored in taxonomical order (according to family, genus and species), while non-identified part – according to expeditions.

Several specimens were obtained before 1899. The main collection originates from the materials of the famous first Russian research vessel «Andrey Pervozvannyi» (1899). Since that time many regions of the World Ocean were sampled and lot of materials were collected by Zoological Institute researchers. For example, a total of 309 species and subspecies of brittle stars (Ophiuroidea) are available in the Marine Research Laboratory of the Zoological Institute RAS collection mainly from cold and temperate waters of the World Ocean (polar and middle latitude regions).

Great volume of data did not allow analyzing to the full the extracted and identified material and from 1988 was created information system of marine invertebrates.

The database includes information on sea stations where marine invertebrates have been collected and contains data on coordinates, depth, ground and other parameters. In combination with a systematic data base containing information about the structure of fauna of a particular region (classifier) and collection data base (information about a place and a way of storage of assembled material) the data bank "OCEAN" permits us to conduct search of information under numerous inquiries, among which it is possible to name, for example, the following, reception of information about stations on a given set of parameters; reception of lists of taxa on a given set of parameters or for a particular station; reception of lists of stations or collection numbers for a given taxon or group of taxa. Reception of answers on queries in textual and cartographic form is possible.

These data have not only scientific and historical aspects. Accumulation of monitoring collections over a broad period make it possible to track changes in marine ecosystems under climatic, hydrologic and anthropogenic influence.

The work was carried out as part of research on the state theme "Taxonomy, biodiversity and ecology of invertebrates in Russian and adjacent waters of the World Ocean, continental water bodies and wetlands" (No. AAAA-A19-119020690072-9), partly supported by Grant of RFBR and NSFC according to project № 19 -54-53028 "Comparative analysis of *Ophiura sarsii* Lütken, 1855 (Echinodermata: Ophiuroidea) populations in the seas of the Arctic and Pacific basins: morphology, genetics, linear growth" and basic research programs of the Presidium of the Russian Academy of Sciences "Biodiversity of natural systems and biological resources of Russia" (Sub-program "Biodiversity", project: "The taxonomic and ecological aspects of the study of diversity of fauna of Russia").

# **10<sup>th</sup> European Conference on Echinoderms**

## **Moscow 16-19 September, 2019**

### **Organizers:**

**Borissiak Paleontological Institute of the Russian Academy of Sciences RAS**

**A.N. Severtsov Institute of Ecology and Evolution RAS**

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