SeaDataCloud

Oleksandr Neprokin

Ukrainian Scientific Centre of Ecology of the Sea (UkrSCES) – Partner 42

SEADATACLOUD, FINAL WEB PLENARY MEETING, 29-30 OCTOBER, 2020

The majority of the data provided by UkrSCES comes from the old data base "Sea Base" and covers the coastal monitoring stations of the North-Western part of the Black Sea.

UkrSCES completing the development of the new data base. These activities were performed within the EMBLAS project (phases 2 and 3). The data stored in this data base covers the period from 2016 to 2019 and contains all the data collected within the Black Sea monitoring surveys performed during EMBLAS and historical monitoring data obtained from the Project's Partners. New data base was built using the MSFD ecosystem approach and developed to be compatible with SeaDataNet and EMODNET from the start. The data base structure contains all the appropriate fields to make work smooth during the data exporting projects. For example, all the cruise, vessels and platforms identifiers were defined and built. The data base parameters were synchronized with the corresponding vocabularies (BODC vocabularies) and identifiers (WORMS for EMODNET Biology), etc. The work on the new data base compatibility scripts writing for MICADO and OCTOPUS will begin in early 2021 to provide the automatic data conversion in accordance with the SeaDataNet and EMODNET requirements.

SEADATACLOUD, FINAL WEB PLENARY MEETING, 29-30 OCTOBER, 2020

New database (Menu frame: Groups and features)

Graphic web-interface of the database provide an access to the data collected within the catalogues. These catalogues organized in accordance with the MSFD indicators of the corresponding Descriptors and presented in the Menu frame as the features in the groups and subgroups. The groups corresponds to the MSFD Descriptors. Data catalogues covers the majority of the MSFD Descriptors and indicators except Microplastic, Sea bottom litter and Energy (noise). These catalogues will be developed during the further activities.
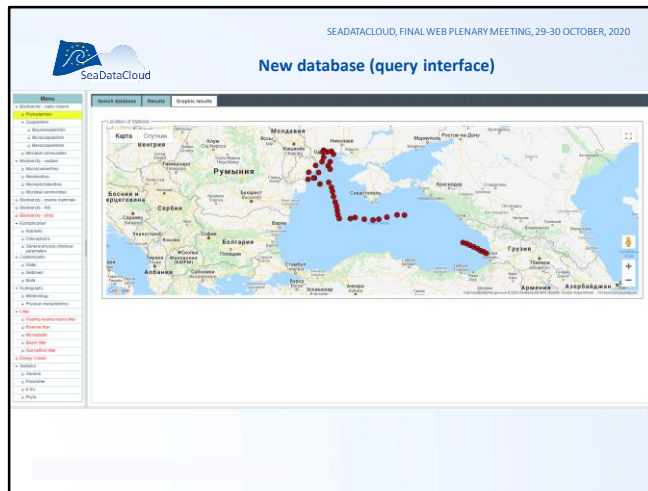
Query interface has 3 tabs: Search using the difference filters, Results according to the data query and the Graphic results to display the stations selected in query.
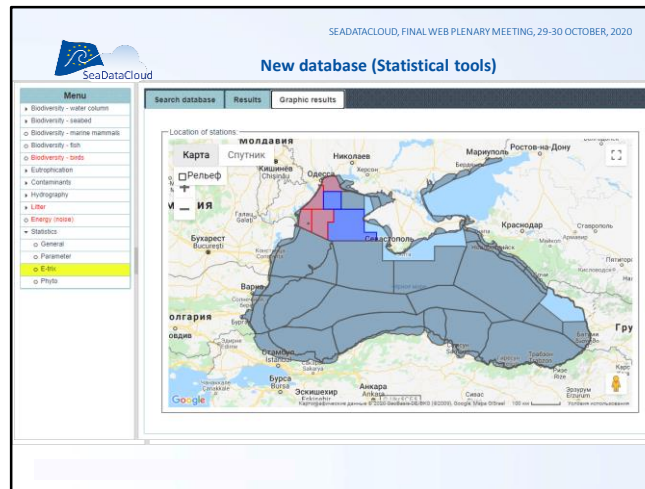
The set of statistical tools also available via the web interface. Some tools represents the contents of the database. Another were developed to show the environmental state integral values (for example E-TRIX, the indicator showing trophic level). The integral evaluation tools should work within the polygons of the Black Sea and show the value for each polygon. The polygonal delimitation performed in accordance with the MSFD recommendations and principal for whole Black Sea. The work on the scientific evaluation database tools development is planned during the further activities.

One of the benefits of the UkrSCES's involvement in the SeaDataNet activities is the closer cooperation within the IODE Program of IOC-UNESCO. In 2016 UkrSCES have become the OBIS Black Sea node (https://obis.org/contact/) and this allowed to join to EMODNET Biology community (subcontract since 2020). In 2019 UkrSCES acquired the status of the NODC within the IODE.