Impact of IODE on establishment and capacity building of the Ukrainian NODC-Biology

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Ukraine is an active member of the IOC IODE. The Ukrainian National Oceanographic Data Centre was established in 1993 on a basis of the Marine Hydrophysical Institute of the National Academy of Sciences of Ukraine (MHI NASU). It was leaded by Dr. A. Suvorov and included a team of qualified data managers and software developers.
The Ukrainian NODC manages physical, chemical, and satellite data. However, due to the limited main directions of the basic institution (MHI) work, it cannot manage biological data. It was planned at the creation of the Ukrainian NODC that it should function as the distributed system and biological data should be managed by one of the marine biological institutions but the financial limitations prevented the implementation of this idea.
Although, work on the preparation of a core team of the future NODC Biology was started. For this, two leading engineers from IBSS dialing with marine biological data were sent to attend the IODE trainings, first – the IODE Training Course in Ocean Data Management held in Tehran, Iran, in 2002, and second – to the Marine Biodiversity Data Management training, held at the IOC Project Office for IODE in Oostende, Belgium, in 2006. One person attended as well 2006 POGO-SCOR Visiting Fellowships for Oceanographic Observations at the BODC, Liverpool, UK. Duration - 2 months.
In September 2008, taking into account the growing role of the marine biological data, Ukraine decided to shift to the distributed model of the NODC. From this time in Ukraine in addition to the NODC based at the MHI there is one more NODC based at the Laboratory of the Marine Information Systems of the Institute of Biology of the Southern Seas (IBSS NASU). Both institutions are members of the Oceanological Centre of the National Academy of Sciences of Ukraine.
NODC on a basis of the MHI is dealing mostly with the physical, chemical, and satellite data (http://www.ocean.nodc.org.ua/).
NODC on a basis of the IBSS is dealing mostly with the marine biological and biophysical data (http://nodc.ibss.org.ua/).
In spite of good knowledge of the hydrobiology, the Ukrainian NODC-Biology staff had rather limited experience in the issues of the marine biological and oceanographic data and metadata management, processing, and quality control. So, the intensive training of staff was necessary at this starting stage of the UkrNODC-Biology functioning. This training was provided by the IOC Project Office for IODE through its training courses.
Training activity (IODE):

IODE Training on the End to End data Management (E2EDM) system. October 2007. Oostende, Belgium

IODE E-repository Training Course, 2007, Oostende, Belgium.

IODE Training Course on the Establishment of National ODP nodes in the Black Sea region (ODINBlackSea), March 2009, Obninsk, Russia.

IODE Training Course on web site development, June 2009. Oostende, Belgium.

OceanTeacher Academy Course DM: Introduction to Marine GIS. May 2010, Oostende, Belgium.

OceanTeacher Academy Course DM: Basic Marine Data Management. September 2010, Oostende, Belgium.

OceanTeacher Academy Course MIM : Writing for Professional Publications. November- December 2010 Oostende, Belgium
Training activity IODE)
Training activity (other courses):

Technical training workshop on metadata and data management for Upgrade BlackSeaScene, Caspinfo and SeaDataNet. 26 - 29 October 2009, Oostende, Belgium.

Ug BS SCENE 1st workshop on DQC for Physical Oceanography datasets. Sevastopol, Ukraine, 28th June - 1st of July 2010.

Upgrade Black Sea SCENE Training Workshop, March 2011, Oostende, Belgium. The Workshop has a focus on further training in the tools and methods for converting, quality control, and analysis of data sets from various disciplines.
As the result, during two and half years of its existence, the Ukrainian NODC-Biology became the fully operational data center that not only fulfills all functions of the NODC but also provides valuable help to the NODCs in the Black Sea region through the IODE ODIN Black Sea project.
Database of reports of the coastal expeditions
Database of reports of R/V cruises (CSR compatible)

150 Cruises, 13391 Stations
Black Sea Mnemiopsis Leidyii Database. Maintained under the umbrella of the Black Sea Commission
IODE Projects

Ocean Data and Information Network of Africa (ODINAFRICA)

Ocean Data and Information Network for the Black Sea Region (ODINBLACKSEA)

CEEMaR (Central and Eastern European Marine Repository) is a thematic digital repository covering the marine, brackish and freshwater environments and providing access to papers produced by staff of the ECET countries Institutes.
ODINAFRICA Marine Biodiversity data digitization for Guinea
IBSS Institutional Repository

In January-February 2011:
20.9 Gb Traffic
5985 Unique visitors

Repository preserves and distributes digital collections including: IBSS serials, theses, research reports, preprints, papers, image collections etc.
European FP-6 and FP-7 Projects

FP7 PESI (Pan-European Species-directories Infrastructure)

FP6 BS SCENE
(BLACK SEA SCIENTIFIC NETWORK)
Completed

FP7 UP-GRADE BS SCENE
(UP-GRADE BLACK SEA SCIENTIFIC NETWORK)

PEGASO (People for Ecosystem-based Governance in Assessing Sustainable Development of Ocean and Coast) FP7
Another International Projects

OCEAN-UKRAINE. Strengthening the oceanographic data management and operational forecast services at IBSS and MHI, Ukraine.

Interdisciplinary project, that involves the Flanders Marine Institute (VLIZ) and two major Ukrainian marine institutions: the Institute of Biology of the Southern Seas (IBSS) and the Marine Hydrophysical Institute (MHI). The general objective is to strengthen capacity in these institutes and to integrate them in European networks through a bilateral partnership with Flanders (Completed).

EMODnet Biology

The Maritime Policy Blue Book, welcomed by the European Council in 2007, announced that the European Commission would take steps to set up a European Marine Observation and Data Network to improve access to high quality marine data for private bodies, public authorities and researchers.
Marine Biological Data Archeology Rescue and Digitization
UkrNODC-Biology Provides **on-line** Data to ODP, OBIS, and BSS/SeaDataNet
12 Web Sites are developed and maintained
Thank you for your attention!

http://nodc.ibss.org.ua/