

**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION  
(of UNESCO)**

**Twentieth Session of the IOC Committee on International Oceanographic Data and  
Information Exchange (IODE-XX)  
Beijing, China, 4-8 May, 2009**

**OCEAN DATA AND INFORMATION NETWORK  
FOR THE BLACK SEA REGION  
(ODIN-Black Sea)**

Vladimir Vladymyrov, ODIN-Black Sea Interim Project Coordinator

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**Summary of the document**

This document provides information on progress in implementation of the ODIN-Black Sea project and on the problems faced by the project.

The regional NODCs participating in the project are requested to be more active and to speedup the project development.

The committee is invited to consider the project status and to approve the project plan and budget for the next intercessional period.

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**Appendices: A:** Ocean Data and Information Network for the Black Sea Region (ODIN Black Sea). Report of Activities 2007 and Proposed Work Plan for 2008-2009

**DRAFT TEXT FOR INCLUSION IN THE SUMMARY REPORT**

This Agenda item was introduced by Dr. Vladimir Vladymyrov, the ODIN-Black Sea Project Interim Coordinator. He recalled to the committee that the ODIN-Black Sea project was established formally during the Nineteenth Session of the IODE Committee (Trieste, Italy, March 2007). All riparian Black Sea countries are the participants of the project. Dr. Atanas Palazov (IO-BAS, Bulgaria) was elected to be the ODIN-Black Sea coordinator.

The committee was informed that the main activities of the ODIN-Black Sea project in 2007 was directed to the regional NODCs capacity building that included participation of the 28 ODIN-Black Sea trainees in 3 training courses organized by the IOC Project Office for IODE (one of them was organized jointly with the ASCABOS EC Project).

Dr. Vladymyrov also informed committee that at the end of 2007 Dr. Atanas Palazov, the ODIN-Black Sea coordinator, was appointed to be a director of the Bulgarian Institute of Oceanology. It is a very time consuming position and from November 2007 Dr. Palazov unfortunately could not dedicate any time for the ODIN Black Sea Project. As the result, the ODIN Black Sea activity was fully stopped from this time till February 2009 when Dr. Vladimir Vladymyrov was appointed as the interim project coordinator till IODE-XX where the new project coordinator would be selected.

*[Several activities from the ODIN Black Sea work plan adopted in 2007 are underway now including: (1) preparation of the review presenting the results of analysis of the structure and state of the Black Sea Region National Oceanographic Data Centres; (2) organization of the ODIN Black Sea Steering Group Meeting and Training on the E2EDM prototype system for the ODIN Black Sea countries to be held in Obninsk, Russia, in March 2009; (3) application of E2EDM technology at the ODIN Black Sea NODCs; (4) development of the ODIN Black Sea web site.]*

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**DRAFT ITEMS FOR THE 2009-2011 WORK PLAN AND BUDGET**

<b>Action item description</b>	<b>To be implemented by</b>	<b>Deadline date</b>	<b>Requested from UNESCO RP</b>	<b>Requested from other sources</b>
ODINBLACKSEA Steering Group Meeting and Training on the E2EDM prototype system for the ODINBLACKSEA countries	ODINBLACKSEA coordinator, Russian NODC	March 2009	5,000 USD (shared with the ODP Project?)	
Development of the ODINBLACKSEA web site	ODINBLACKSEA coordinator	April 2009		
Participation of the ODINBLACKSEA coordinator in IODE-XX	ODINBLACKSEA coordinator	May 2009	2,500 USD	
Organization of the ODINBLACKSEA DM training course (intermediate level)	ODINBLACKSEA coordinator, IODE Project Office	Autumn 2009		35,000 USD
Participation of the ODINBLACKSEA trainees in the different training courses	ODINBLACKSEA coordinator, IODE Project Office	2010		30,000 USD
ODINBLACKSEA Steering Group Meeting	ODINBLACKSEA coordinator	2010	7,000 USD	
Participation of the ODINBLACKSEA trainees in the different training courses	ODINBLACKSEA coordinator, IODE Project Office	2011		30,000 USD
Participation of the ODINBLACKSEA coordinator in IODE-XXI	ODINBLACKSEA coordinator	2011	2,500 USD	
<b>TOTALS</b>			<b>17,000 USD</b>	<b>95,000 USD</b>
2009			2500 USD	35,000 USD
2010			7000 USD	30,000 USD
2011			2500 USD	30,000 USD

## Appendice A

### **Report of Activities 2007 and Proposed Work Plan for 2008-2009**

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

##### **Submitted by:**

**Vladimir Vladymyrov  
on behalf of Atanas Palazov,  
Regional Coordinator**

##### **Introduction**

The Ocean Data and Information Network for the Black Sea (ODINBLACKSEA) Pilot Project was established formally during the Nineteenth Session of the IODE Committee (Trieste, Italy, March 2007) through the Recommendation IODE-XIX/10 with the following objectives:

**Objective 1:** Provide assistance in the development, operation and strengthening of National Oceanographic Data (and Information) Centres to advance the level of less experienced data centres and to establish their networking in the region;

**Objective 2:** Provide training and education in marine data and information management, taking into account the requirements of operational oceanography; applying standard formats and methodologies as defined by the IODE;

**Objective 3:** Enhance national and regional awareness for Marine Data and Information Management;

**Objective 4:** Assist in the development and maintenance of national and regional marine data, metadata and information databases;

**Objective 5:** Assist in the development and dissemination of marine data, information products and services, meeting the needs of user communities at the national and regional levels, and responding to national and regional priorities;

**Objective 6:** Undertake the activities needed for applying modern technologies for data collection, processing, storing and dissemination to achieve end-to-end data management (E2EDM).

**Objective 7:** Undertake the ODINBLACKSEA activities in close collaboration and networking with other relevant organizations, programmes and projects operating in the region.

At the moment the following countries and organisations (NODCs or DNAs) are involved in ODINBLACKSEA project (in the alphabetical order):

- **Bulgaria** – Bulgarian National Oceanographic Data Centre (BGODC), Institute of Oceanology – Bulgarian Academy of Sciences;
- **Georgia** – Tbilisi State University;
- **Romania** – National Institute for Marine Research and Development "Grigore Antipa";
- **Russia** - All-Russian Research Institute of Hydrometeorological Information – World Data Centre (RIHMI-WDC), Federal Service of Russia for Hydrometeorology and Monitoring of Environment;
- **Turkey** - NODC-Turkey, Office for Navigation, Hydrography and Oceanology;
- **Ukraine** – Marine Hydrophysical Institute, National Academy of Sciences of Ukraine; Institute of Biology of the Southern Seas, National Academy of Sciences of Ukraine (as a part of the distributed NODC).

### **Summary of the ODINBLACKSEA project activities (April – November 2007)**

1. ASCABOS EC Project Training for young scientists (issues related to the operational oceanography).

One week training for 12 trainees (2 from each riparian Black Sea country) was held in April 2007. Trainees were selected by the ASCABOS project. The training was supported jointly by the IODE Project Office and the ASCABOS Project.

2. Participation in the “Ocean Data Management Training for Young Scientists: from Measurement to Product.” June 2007.

One week training that includes one day expedition on board of Zeeleeuw (VLIZ research vessel). 4 trainees from the riparian Black Sea countries attended the training (2 from Bulgaria, 1 from Romania, and 1 from Russia). The training was supported by the IODE Project Office.

3. One day visit of Sergey Belov (NODC, Russia) to the IODE Project Office. June 2007.

The visit to discuss the organization and agenda of the E2EDM system training to be held at the Project Office in October 2007.

4. Five days visit of Sergey Belov and Sergey Sukhonosov (NODC, Russia) to the IODE Project Office. October 2007.

The visit to update of the E2EDM system and to prepare the E2EDM training

5. Participation in the E2EDM System Training. October 2007.

One week training on the End to End data Management (E2EDM) system. How to be connected to the system. 12 trainees from the riparian Black Sea countries attended the training (2 from Bulgaria, 2 from Romania, 2 from Turkey, 4 from Ukraine and 2 from Russia). After this training the participated organizations are technologically ready to be connected to the E2EDM system as the data providers.

## **ODINBLACK SEA draft work plan and budget for 2008-2009**

1. A review presenting the results of analysis of the structure and state of the Black Sea Region National Oceanographic Data Centres will be prepared. This review will be basically based on the draft document "Performance Benchmarks for National Oceanographic Data Centers (NODCs) and Designated National Agencies (DNAs) in the International Oceanographic Data and Information Exchange Programme (IODE). The experience of the analysis of the structure and state of the Bulgarian National Oceanographic Data Centre (BGODC), realized as a deliverable from the SIBEMA project will be taken into account. Some mandatory, highly desirable, and facultative criteria for the evaluation of NODCs will be used. By applying this general checklist on the NODCs, this report will introduce a well-grounded assessment of the data management situation in the Black Sea region.

Timing: 2008.

Funding source: internal sources.

2. National experts will work in close collaboration with IODE experts to improve NODCs' structure in the Black Sea region aiming to meet IOC-IODE requirements and best practices.

Timing: 2008-2009.

Funding source: internal sources.

3. In order to assist the coordination of project activities, as well as to create awareness and to promote the project, the ODINBLACKSEA project website will be developed. It will be hosted and maintained by the Project Office.

Timing: first version by March 2008, permanently updated in 2008-2009.

Funding source: internal sources (IO BAS / BGODC).

4. With the support and collaboration with BlackSeaGOOS and IODE a basic course on Operational Oceanography will be organized and performed in all Black Sea countries, with participation of the specialists from regional NODCs (ASCABOS training program).

Timing: 2008.

Funding source: internal sources (ASCABOS Project)

5. Planned actions for application of E2EDM technology to integrate the non-homogeneous local data systems into unified distributed marine data system that will provide the transparent exchange between these local systems and an end-user access to numerous data flows/sets/bases in a "single stop shopping" manner. The E2EDM technology should provide the real-time access to, and fusion of distributed marine data:

5.1. Definition the agreed common list of data/product types as information basis of the ODINBLACKSEA operations;

5.2. Providing the collection (or preparing) of these data/products from national organizations/laboratories and forming the national data sources for ODINBLACKSEA.

5.3. Improving the Ocean Data Portal services to meet the requirements from the Black sea users.

5.4. The installations of E2EDM Data Provider software at the IODE NODC/DNA's.

5.5. The installation of the Integration Server at IO BAS and providing the testing the ODINBLACKSEA operations (connection with data providers, portal functions, interactions with portal mirror and etc.).

5.6. Providing of the ODINBLACKSEA routine operations.

Timing: 2008.

Funding source: internal sources.

6. Organization of the ODINBLACKSEA Project Steering Committee meeting. (supported by the IODE).

Timing: Spring 2008.

Funding source: IODE (RP \$5,000).

7. Organization of the DM training course (intermediate level) jointly with the IODE Project Office.

Timing: 2008.

Funding source: IODE Project Office (\$35,000).

8. Organization of the DM training course (advanced level) jointly with the IODE Project Office.

Timing: 2009.

Funding source: IODE Project Office (\$35,000).

9. Organization of working collaboration with the ODINECET IODE Project.

Timing: 2008-2009.

Funding source: internal sources

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