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Chairman:

Mihail PRICOP

Members:

Octavian TĂRĂBUȚĂ
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Workshop Agenda:

16 May 2011

1st Announcement

Invitation to take part in the "MEASUREMENTS OF THE UNDERWATER BACKGROUND NOISE ON THE ROMANIAN CONTINENTAL PLATFORM OF THE BLACK SEA AND THE IMPACT ON THE ECOSYSTEM WITH ECONOMICAL IMPLICATIONS", which is a part of the Romanian - Norwegian cooperation project – RoNoMar.

10 June 2011

Deadline for Workshop registration and abstract submission on-line registration through the website: www.anmb.ro

12 June 2011

2nd Announcement

Confirmation of applications receive and author's notification and the timetable completion.

22 June 2011

The Workshop day (Thursday)

08.45-09.00 Guest receiving, distributions of the maps and promotional materials

09.00 -09.15 Opening ceremony. The speech of the Naval Academy superintendent (rector)

09.15-11.00 Round table panel discussions - according to the time table

11.00-11.20 Coffee Break

11.20-13.00 Round table panel discussion - according to the time table

13.00-14.00. Visit of the research equipments and laboratories bought during the RONOMAR project.

14.00-14.15. Closing panel discussion.

14.15-15.15 Lunch

15.15-15.30 The departure of the guests.

Scientific Committee:

Chairman: Vergil CHIȚAC

Members: Marian Traian GOMOIU, Mihail PRICOP, Coprean DRAGOMIR, Teodora ONCIU, Anne STENE

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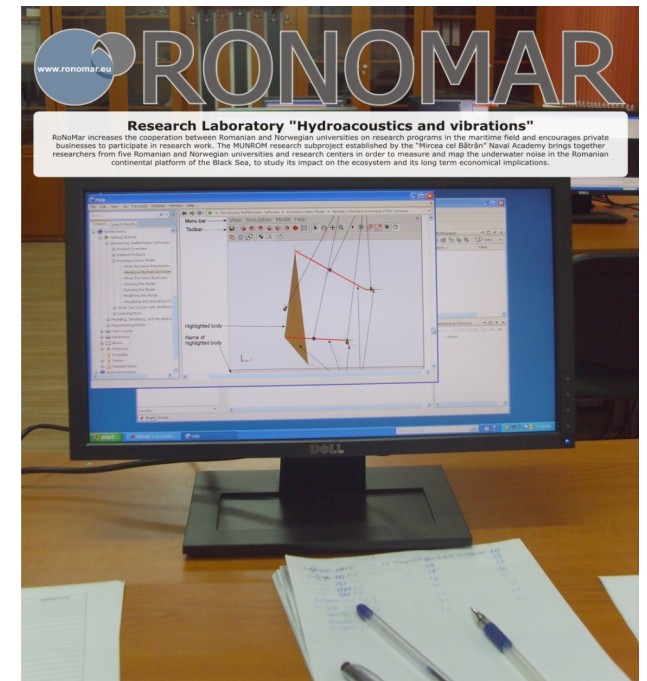
Partners: Aalesund University College, Maritime University Constanta, "Ovidius" University Constanta, Naval Research Center, The National Institute for Research and Development of Marine Geology and Geoecology GeoEcoMar

**"MIRCEA CEL BATRAN" NAVAL ACADEMY
 CONSTANTA**



Workshop

**MEASUREMENTS OF THE
 UNDERWATER BACKGROUND
 NOISE ON THE ROMANIAN
 CONTINENTAL PLATFORM OF
 THE BLACK SEA AND THE
 IMPACT ON THE ECOSYSTEM
 WITH ECONOMICAL
 IMPLICATIONS**





1. General objectives of the project

Many factors contribute to the changes that took place in the Black Sea, starting with the changes in the climate which caused the increase of the temperature and, therefore, the appearance of a large number of algae and ending with the interference of man by intensive fishing and increase of underwater noise.

The goal of this project is focused on the following objectives:

- evaluation of the preexisting background noise
- making a noise map (the spectrum and level of underwater noise)
- determining the sources of underwater noise that have major impact on fauna
- determining the sensitivity of marine species to noise
- drawing general and specific conclusions and providing economic viable solutions.

The measurements will determine the background noise existing in the sea. Some of the

artificial noise sources that change the flora and fauna in the sea are: fishing and pleasure boats, oil platforms, military exercises – away from the coast, and human activities like riding jet skies – along the coast. One of the sources of underwater noise in the lower frequencies is shipping noise. This type of noise is the result of surface ships that are too far away to be heard individually. Shipping noise is generally highest near the major shipping lanes. The contribution of ships to the ambient noise background depends on the distance of the receiver from traffic lanes or from other ship concentrations.

The noise from human activities has the capacity to directly cause disturbance to marine mammals. The effects of noise can have long term consequences for individuals or stocks of a species. Creating a noise map for coastal platform of the Black Sea will ensure a better understanding of the impact of human activities in the sea and will help the preservation of the environment. In addition, the economic activities will have a guide to avoid the future negative impact.



2. Scientific and/or technological aims of the project

From the scientific/technological perspective, MUNROM involves the development of a mobile research laboratory used in monitoring the underwater sounds and noise.

The project will develop the research components (monitoring, measurement, analyze) related to the expertise solicited by government agencies and the economic agents who operate on the Romanian continental platform (environmental study).

The overall objective of MUNROM fits into the SDD/UE (National and European Strategy of Durable Development): Improvement of the natural resources management and reducing their exploitation – application of the UE normative regarding maritime areas and the integrated management of the coastal regions.