



NATIONAL INSTITUTE OF MARINE GEOLOGY AND GEOECOLOGY  
- GEOECOMAR -  
23 - 25 Dimitrie Onciul Street, 024053 Bucharest, ROMANIA  
[www.geoecomar.ro](http://www.geoecomar.ro)

# *Romania - National update*

**RIV MARE NIGRUM**

**RIV ISTROS**

*Copenhagen - Denmark, 2009*



# Codes implementation

**R/V Mare Nigrum: ISM Code Certificate no. 000024 / February 2006**

**R/V Mare Nigrum: ISPS Code Certificate no. 00040 / May 2009**

**GEOECOMAR – certification for scientific activities (including the scientific activities on-board of the own research vessels):**

**ISO 9001: 2008**

**SR EN ISO 9001: 2008**

**(Certificate no. 170539/April 2006, from Lloyd's Register Quality Assurance)**

**ROMÂNIA**

**Ministry of Transports, Constructions and Tourism** / **Ministerul Transporturilor, Construcțiilor și Turismului**

**SAFETY MANAGEMENT CERTIFICATE**  
**CERTIFICAT DE MANAGEMENT AL SIGURANȚEI**

Certificate No. / Certificat Nr. 000053

Issued under the provisions of the International Convention for the Safety of Life at Sea, 1974, as amended, under the authority of the Government of Romania by Ministry of Transports, Constructions and Tourism, through Romanian Naval Authority, Constantinou și Turismului, prin Autoritatea Navalei Române.

Name of ship / Numele navei	MARE NIGRUM
Distinctive number or letters / Inducativul navei	YOPT
Port of registry / Portul de înregistrare	CONSTANTA
Type of ship / Tipul navei	OTHER CARGO SHIP
Gross tonnage / Tonajul brut	2495
IMO Number / Numărul IMO	7119408
Name and address of Company / Numele și adresa companiei	Institutul Național de Cercetare-Dezvoltare pentru Geologie și Geocologie Marină - GeoEcoMar
Unique Company Identification Number / Numărul unic de identificare a Companiei	Str. Dimitrie Onciul, Nr. 23-25, București, ROMANIA

**This is to certify that the safety management system of the ship has been audited and that it complies with the requirements of the International Management Code for the Safe Operation of Ships and for Certification of the Safety Management System for Pollution Prevention (ISM Code), following verification that the Document of Compliance for the prevention of pollution (Codul ISM) și că s-a verificat că Documentul de conformitate al Companiei este aplicabil la acest tip de navă.**

**This Safety Management Certificate is valid until 23 FEBRUARY 2011**

**Acest certificat de management al siguranței este valabil până la 23 FEBRUARY 2011**

subject to periodical verification and the Document of Conformity remaining valid.

cu condiția verificărilor periodice și valabilității Documentului de conformitate al companiei.

Issued at / Eliberat la **CONSTANTA** (place of issue of the Document) / (locul eliberării documentului)

Date of issue / Data eliberării **10 JULY 2006**

**ROMANIAN NAVAL AUTHORITY**  
**AUTORITATEA NAVALEI ROMÂNE**

(Signature of the duly authorized official issuing the document) / (Semnătura persoanei oficiale autorizate să elibereze acest document)

(Seal or stamp of issued authority, as appropriate) / (Sigiliul sau ștampila autorității emittente, după caz)

**ROMÂNIA**

**CERTIFICAT INTERNAȚIONAL DE SECURITATE A NAVEI**  
**INTERNATIONAL SHIP SECURITY CERTIFICATE**

Certificate nr. / Certificate no. 00040

Emis conform prevederilor / Issued under the provisions of the

**CODULUI INTERNAȚIONAL PENTRU SECURITATEA NAVELOR**  
**INTERNATIONAL CODE FOR THE SECURITY OF SHIPS**  
**ȘI A FACILITĂȚILOR PORTUARE ( CODUL ISPS )**  
**AND OF PORT FACILITIES ( ISPS CODE )**

Sub autoritatea Guvernului / Under the authority of the Government of **ROMANIA** ( Numele Statului / Name of State )

de către / by **ROMANIAN NAVAL AUTHORITY** ( Persoanele sau organizația autorizate / Persons or organization authorized )

Numele navei / Name of ship	MARE NIGRUM
Număr sau litere distinctive / Distinctive number or letters	YOPT
Portul de înmatriculare / Port of registry	CONSTANTA
Tipul navei / Type of ship	OTHER CARGO SHIP
Tonajul brut / Gross tonnage	2495
Numărul IMO / IMO number	7119408
Numele și adresa Companiei / Name and address of the Company	INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU GEOLOGIE ȘI GEOECOLOGIE MARINĂ - GEOECOMAR
Numărul unic de identificare a Companiei / Unique Company Identification Number	Str. Dimitrie Onciul, Nr. 23-25, BUCUREȘTI, ROMANIA

Prezentul atestă: / This is to certify:

- 1 că sistemul de securitate a navei și orice echipament asociat de securitate a fost verificat în conformitate cu secțiunea 19.1 din partea A a Codului ISPS ;
- 2 că verificarea a arătat că sistemul de securitate a navei și orice echipament asociat de securitate a navei este din toate punctele de vedere satisfăcător și că nava îndeplinește cerințele aplicabile din capitolul XI-2 al Convenției și din partea A a Codului ISPS ;
- 3 că nava este prevăzută cu un Plan de Securitate a Navei aprobat.

**Data verificării inițiale / de reînnoire pe care este bazat acest certificat 07/05/2009**

**Acest Certificat este valabil până la 07/05/2014 supus verificărilor în conformitate cu secțiunea 19.1.1 din partea A a Codului ISPS.**

Emis la / Issued at **CONSTANTA**

Date emiterii / Date of issue **08/05/2009**

(semnătura persoanei oficiale complet autorizate care a emis Certificatul) / (signature of the duly authorized official issuing the Certificate)

(Sigiliul sau ștampila autorității emittente, după caz) / (Seal or stamp of issuing authority, as appropriate)



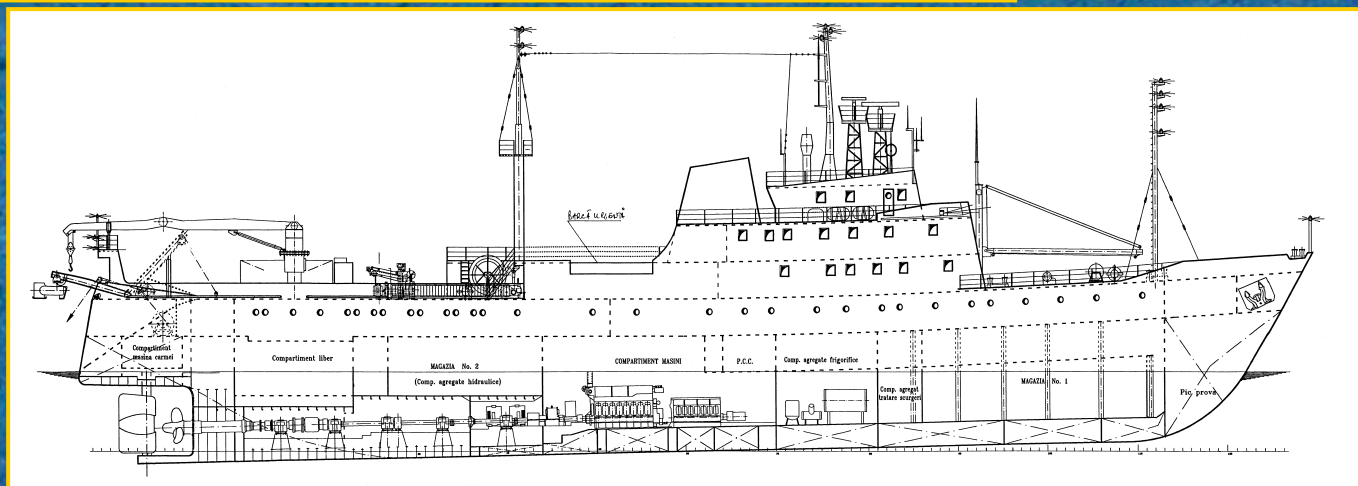


# Vessels and Facilities

- Research Vessel *Mare Nigrum*



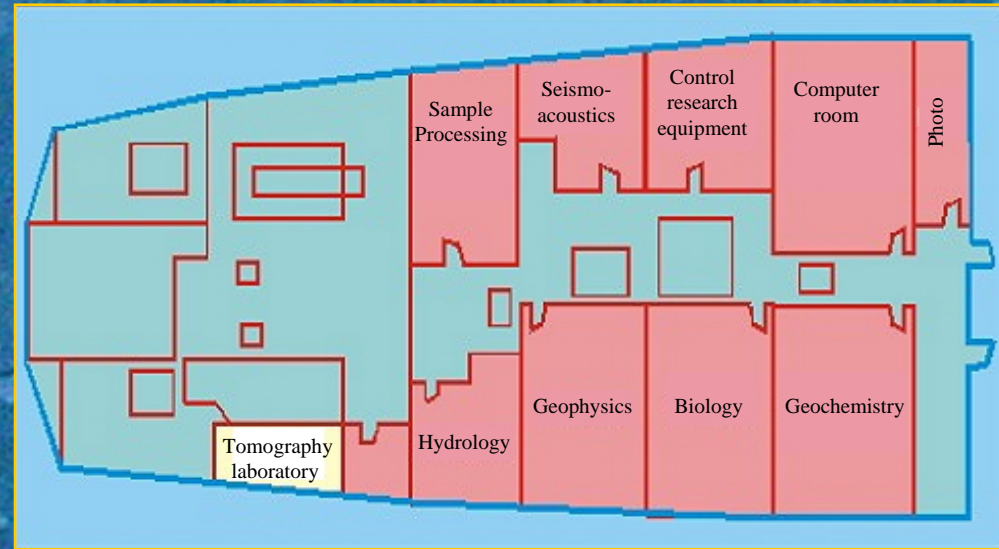
Owner:  
GEOECOMAR, Romania



Vertical section showing the internal distribution of the technical and scientific areas



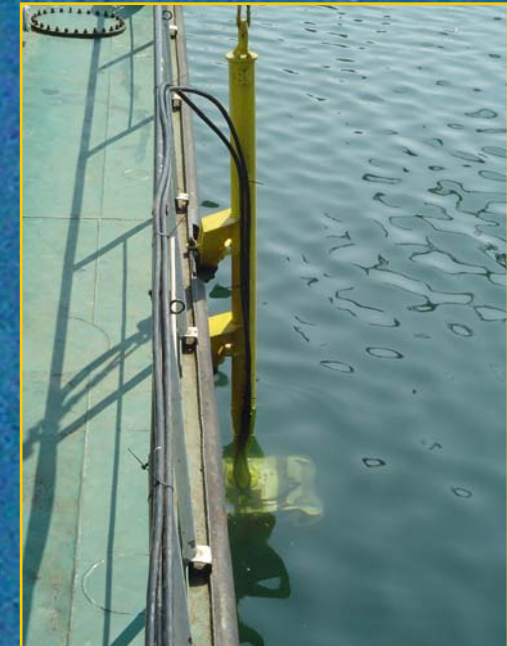
## - Laboratories on - board



- ✓ Wet lab
- ✓ Hydrology
- ✓ Geophysics
- ✓ Biology
- ✓ Geochemistry
- ✓ Computer room
- ✓ Seismo-acoustics
- ✓ Tomography
- ✓ Photo



- R/V *Istros* – The main component of the fluvial infrastructure



**Dimensions:**

Length – 32 m

Breadth – 6.92 m

Height – 1.65 m

Displacement – 171 t

Crew – 7

Scientific crew - 10



**Multibeam Bathymetric  
System SEABEAM 1050  
ELAC – Nautik (180 KHz)**

**DGPS OMNISTAR HP**


**GPS Trimble R3**

**CEEDUCER PRO – Digital  
Hydrographic Survey System**



# Summary and highlights of 2008 Programmes

## A. Scientific activities of R/V *Mare Nigrum* in 2008



Constanța harbour –  
*Mare Nigrum* location

- April, September: UE – FP 6 SESAME Project “Southern European Seas: Assessing and Modeling Ecosystem changes”
- April: PN06270101 project (FLUDITMAR national core programme) “Complex studies (bathymetrical, geochemical, geo-ecological, eco-toxicological) of the Romanian marine area with a view to the knowledge of the geological evolution induced by geotectonic events, global climate and sea level changes”
- April PN06270102 project (FLUDITMAR national core programme) “Realization of maps (1:25000, 1:50000) and other cartographic documents (geological, geophysical and geo-ecological) for the Black Sea through the use of competitive techniques of investigations for correlations at basin, regional and European scale”
- May: STABACUM project (National programme CEEEX – MENER) “Stability of the continental slope of the Black Sea in the area of gas hydrate accumulations – Romanian sector”
- June: PN06270201 (FLUDITMAR national core programme) “Complex geological and geophysical researches for new mineral and energetic resources in the Romanian sector of the Black Sea”
- August PN II 364/2007 project (2nd National Programme)– “Black Sea: evolution of the calcareous nanoplankton in the last 7.000 years. Paleoambiental and paleogeographical reconstructions”
- September, October, November: Geological and geophysical researches for new mineral and energetic resources in the Black Sea”



## B. Scientific activities of R/V **ISTROS** in 2008

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- **UE FP 6 CONSCIENCE** project - “Concepts and science for coastal erosion management”
- **PN06270103** (FLUDITMAR National Core Programme)- “Danube Delta –interdisciplinary studies and detailed cartographic documentation (maps and/or geological, geophysical, geoecological profiles), in order to assess the environmental state and the evolution tendencies under anthropogenic pressures, sea-level and climatologic changes”
- **PN06270104** – (project under FLUDITMAR National Core Programme) - “Complex analyses of water, sediments and pollutants fluxes in the Romanian sector of the Danube, Danube tributaries and navigable channels (Danube-Bucharest, Danube-Black Sea, Sulina) in order to assess the environmental impact and the significant mineral resources and prepare general and detailed cartographic materials”
- **S.C. TRAPEEC S.A. – INTERGIS GRUP S.R.L** –”Technical assistance for improvement of navigation conditions in the Romanian-Bulgarian sector of the Danube”
- **PN06270303** (FLUDITMAR National core programme) - “Technical assistance to governmental bodies and local administrations for integrated management and proposal of national and local measures. Elaboration of hydrological operational models for the Danube, Danube Delta and the Black Sea coast.”
- **CLIMARISC** project (2nd National Programme) - “Application and development of new methods for investigation and dating of major climate and sea level changes from the Danube Delta and the Black Sea for reconstruction of their evolution and forecast of associated risks”.



## Days at sea - 2008

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*R/V Mare Nigrum*

118 days

*R/V Istros*

190 days









## I.1 Activities of R/V *Mare Nigrum* in 2009

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- **March 2009**, training and testing on the sea ROV VECTOR M 5.
- **May 2009**, PN 09410101 Geo-ecological Monitoring of Romanian Continental shelf.
- **June - July 2009**, Complex geological and geophysical researches for new mineral and energetic resources in the Romanian sector of the Black Sea” -1st part
- **August – September 2009**, Complex geological and geophysical researches for new mineral and energetic resources in the Romanian sector of the Black Sea” -2end part



## II.1 Activities R/V *ISTROS* in 2009

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- **May, August, September 2009, PN09-41-03-04** – (project under GEOSIDMAR National Core Programme) – Geo-ecological research to evaluate the influence natural and anthropogenic factors on sediment distribution, water quality and greenhouse gas emissions in the Danube Delta and Razim –Sinoe lagoon complex”.
- **July, August 2009, PN09-41-01-01** – (project under GEOSIDMAR National Core Programme) – Geo-ecological monitoring on the Romanian continental shelf..



**THANK YOU FOR YOUR ATTENTION**

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