

Ervo 2015, June 10-11, Galway Ireland

Romania - National update

R/V MARE NIGRUM

R/V ISTROS

Vessels and Facilities

- Research Vessel *Mare Nigrum*



Owner:
GEOECOMAR, Romania

LABORATORIES

- ✓ Wet lab
 - ✓ Hydrology
 - ✓ Geophysics
 - ✓ Biology
 - ✓ Geochemistry
 - ✓ Computer room
 - ✓ Seismo-acoustics
 - ✓ Tomography
 - ✓ Photo
- Total area ~ 200 m²
 - Computer network
 - Air conditioning
 - Sea and freshwater

2011 - MAIN ENGINES MARE NIGRUM REPLACE

2 x SKL 8 NVD 48A-2U
1161 bhp, 833 bkrw 375 rpm



1X CATERPILAR 3516C
2231 mhp (2200 bhp), 1641 bkrw, 1600 rpm
GEARBOX MASSON: MM W 20500
Maximum rated input: 3780 kw
Available for Continuous Duty Applications
Max Rpm: 1600



- 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

New investment 2013

Seal 2D MARINE SEISMIC ACQUISITION SYSTEM

Onboard of Mare Nigrum

- Seal Streamer: 96 channels, 12.5 group interval
- 2 GI-Guns 355
- Compressor max: 200 bars
- Streamer depth controller
- Navigation software - SeaProNav
- Acquisition software - Seal 428
- QC software - eSQ-Pro



Streamer



LARS for GI-GUNS



GI-Gun



Air compressor



Acquisition room

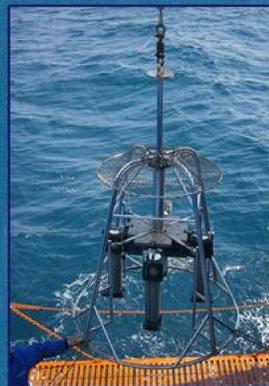


Servers room

Mare Nigrum Sampling Equipment



Mare Nigrum Sampling Equipment



Summary and highlights of 2014 Programmes

A. Scientific activities of R/V *Mare Nigrum* in 2014

- May: GEOSIDMAR PN 09 41 01 01 - Complex monitoring of the Black Sea Romanian continental shelf
- SR_SS_2011_1 - Geophysical campaign
- MAREXIN - Geophysical campaign
- June: PN 09 41 03 01 (GEOSIDMAR national core programme) Geological and geophysical mapping of the marine area under Romanian jurisdiction-Marinegeohazard
- COCONET - FP7 - Coast to Coast Network
- August: PN 09 41 01 01 (GEOSIDMAR national core programme) Geological and geophysical mapping of the marine area under Romanian jurisdiction
- Marinegeohazard
- September: PN 09 41 02 01 project (GEOSIDMAR national core programme) "Complex Researches to identify new mineral and energy marine resources"
- Marinegeohazard

B. Scientific activities of R/V *ISTROS* in 2014

- PN09410304 (GEOSIDMAR National Core Programme) - "Geocological researches to assess the influence of natural and anthropic factors on the sediment distribution, water quality and green-house gases emissions in the Danube Delta and the lagoon complex Razim-Sinoe"
- PN09410305 - (project under GEOSIDMAR National Core Programme) - "Danube River: Morpho-sedimentological and geocological evolution and pollution assessment"
- PN06270303 (GEOSIDMAR 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."
- EXXON Contract - Environmental Baseline Survey.

I.1 Activities of R/V *Mare Nigrum* in 2015

- January 2015: HERAS Romanian-Bulgarian Cross-Border Cooperation Project
- March 2015: Geological and geophysical mapping of the marine area under Romanian jurisdiction
- April 2015: PN 09410101 - Complex geocological monitoring of the Black Sea Romanian continental shelf
- May 2015: The Black Sea Security System EUXINUS
- May 2015: COCONET-FP7 - Coast to Coast Network
- July 2015: The Black Sea Security System EUXINUS
- September 2015: The Black Sea Security System EUXINUS
- November 2015: The Black Sea Security System EUXINUS

II.1 Activities R/V *ISTROS* in 2015

- April - May, August - September 2015: PN09-41-03-04 - (project under GEOSIDMAR National Core Programme) - Geocological researches to assess the influence of natural and anthropic factors on the sediment distribution, water quality and green-house gases emissions in the Danube Delta and the lagoon complex Razim-Sinoe.
- July - August 2015:
 - PN09-41-03-02 - (project under GEOSIDMAR National Core Programme) - Complex researches for the spatial planning of the Romanian littoral
 - PN09-41-03-03 - (project under GEOSIDMAR National Core Programme) - Investigation and quantification of water and sediment circulation based on numerical models in the littoral area

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