

....HYPOX partner institutions

Partner 15:

GeoEcoMar (Constanta, Romania)



....HYPOX partner institutions: GeoEcoMar

National Institute for Marine Geology and Geoecology www.geoecomar.ro



Bucharest Headquarters



Constanta Branch



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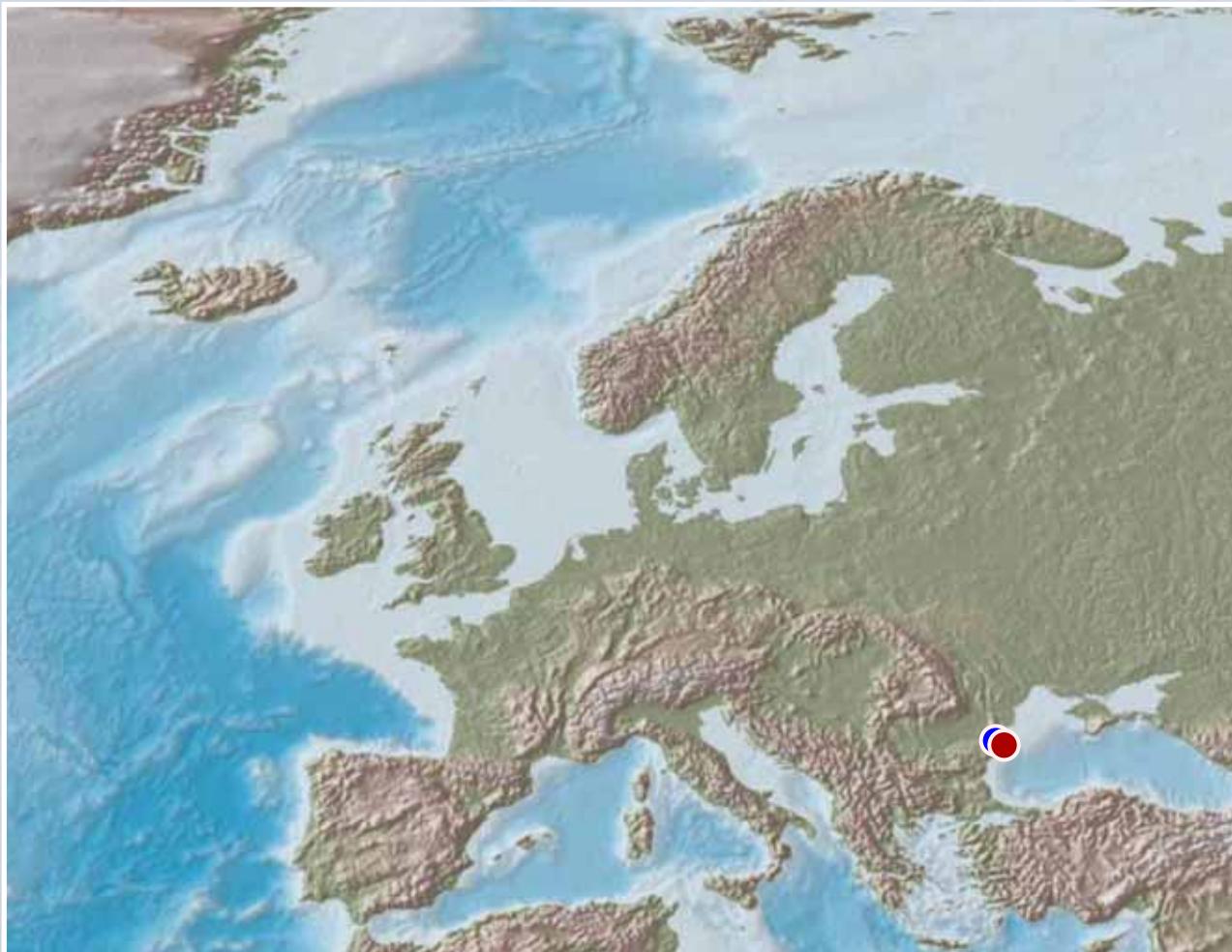
GeoEcoMar scientific activity & objectives

- Geological, geophysical, sedimentological, biogeochemical and ecological studies of marine, fluvial and deltaic environments:
- Geological-geophysical and ecological mapping of the Romanian shelf and other marine areas.
- Investigation of geological structure and evolution of the marine, fluvial and deltaic environments and their mineral resources.
- Assessment of the macro-geosystem Danube River-Danube Delta-Black Sea.



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Institute & main study site location



GeoEcoMar

Black Sea:
North-Western
Shelf

Facilities Relevant for the Project

- Research Vessel "*Mare Nigrum*", 3000 t displacement, 81.94 m length, 13.60 m width, 5.20 m draught;
- Fluvial and shallow marine Research Vessel "*Istros*", 176.5 t displacement, 31.81 m length, 6.8 m width, 0.8 m medium draught;
- Multibeam hydrographic system - Sea Beam 1050D – ELAC Nautik GmbH
- CTD Sea Bird SBE 25 with 12 five litters bottles
Rosette SBE 32
 - Sensors: Conductivity, pressure, temperature, oxygen, pH-Eh, chlorophyll *a*, beam attenuation
- Multicorer Mark II – 400
- ROV Vector M5

R/V "Mare Nigrum"



- Total area ~ 200 m²
- Computer network
- Air conditioning
- Sea and freshwater
- 380 V, 220 V &
- 24 V electric power

Fluvial R/V "Istros"



House boat laboratory
"Halmyris"



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GeoEcoMar tasks in HYPOX

- WP 3 – GeoEcoMar will identify and analyze the main drivers of oxygen depletion, investigate the influence of oxygen depletion on the benthic and pelagic biota and analyze related regime shifts of ecosystems
- WP 4 – GeoEcoMar will provide historical data from its databases and from the Romanian literature
- WP 6 – GeoEcoMar will provide offshore observations by ship, CTD measurements and bottom sampling for the assessment of the ecological state in the oxic/anoxic interface of the northwestern Black Sea shelf study
- WP 7 – GeoEcoMar will periodically assess the ecological state of benthic communities in shallow areas affected by red tides and hypoxia

