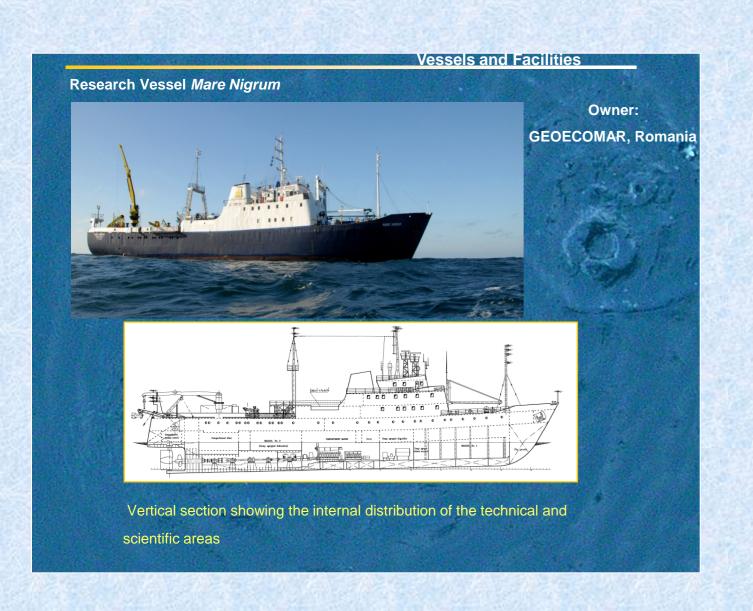
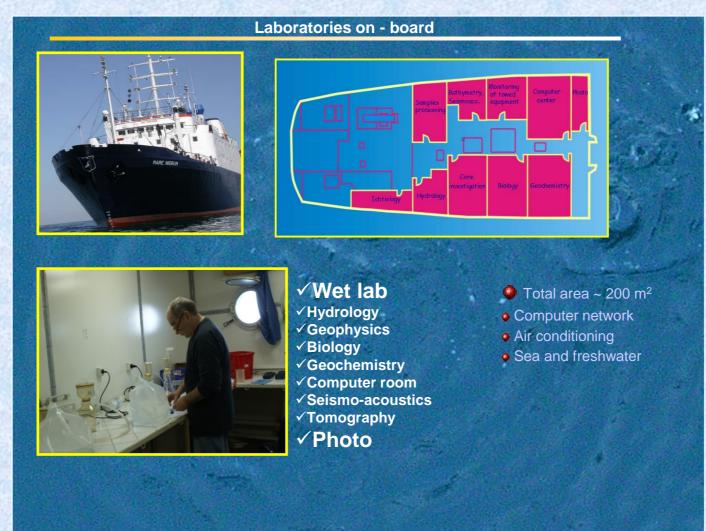


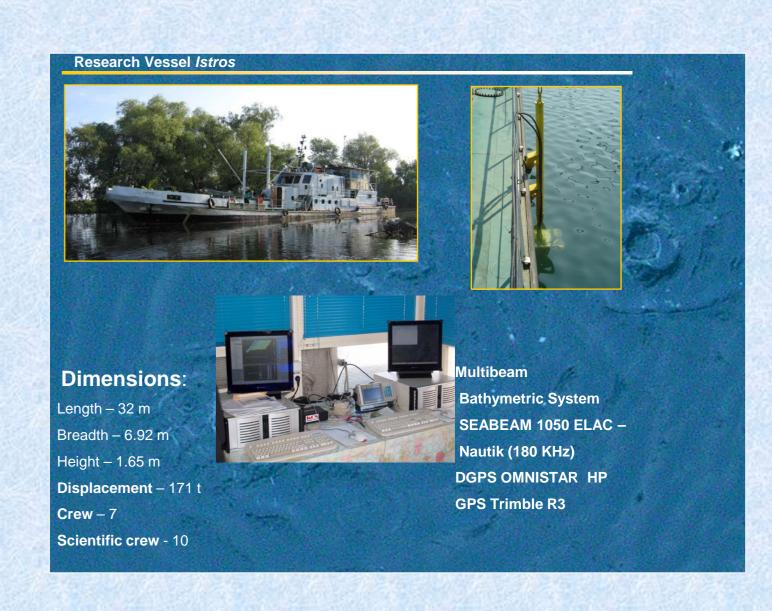


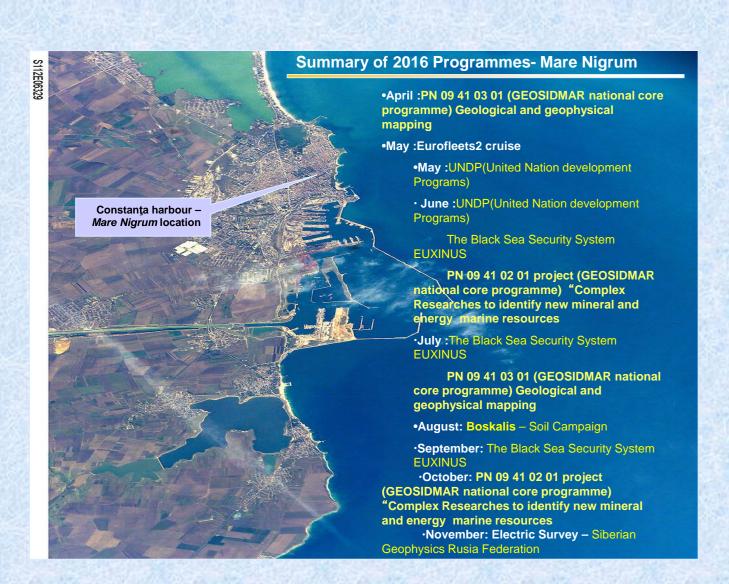
## ERVO2019, JUNE 11-13, HAMBURG, GERMANY Romania - National update

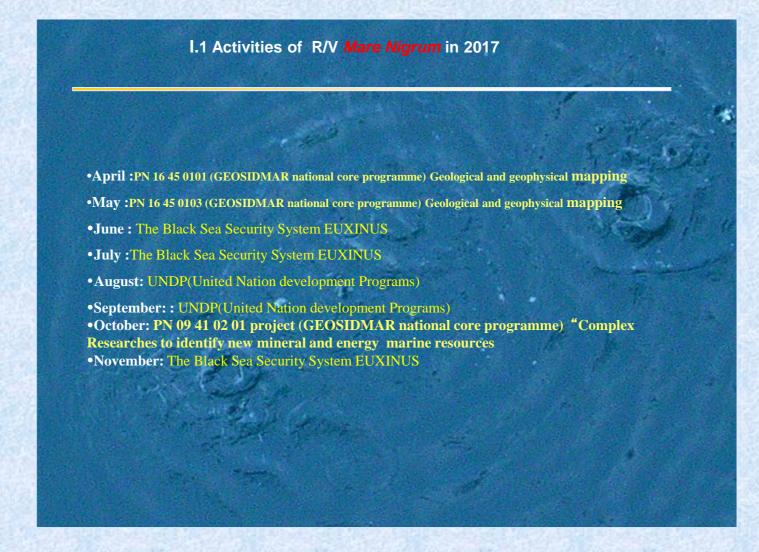
## R/V MARE NIGRUM R/V ISTROS EMSO ERIC BLACK SEA NODE - EUXINUS NETWORK

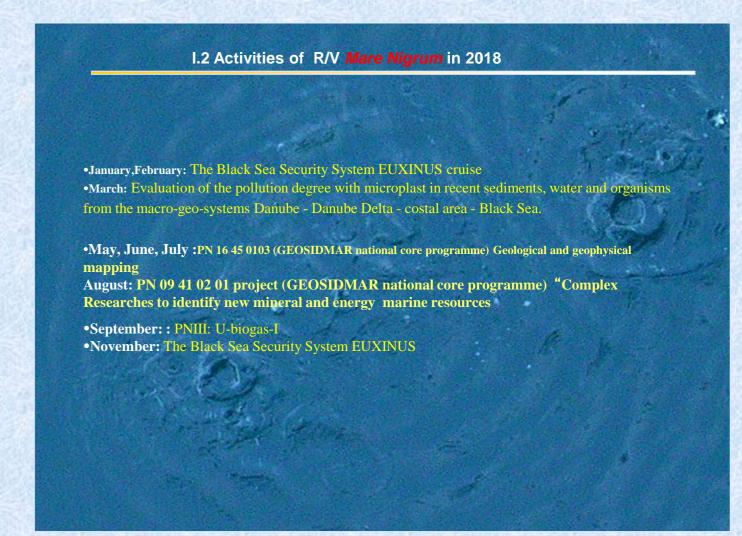












## EMSO ERIC BLACK SEA NODE - EUXINUS NETWORK

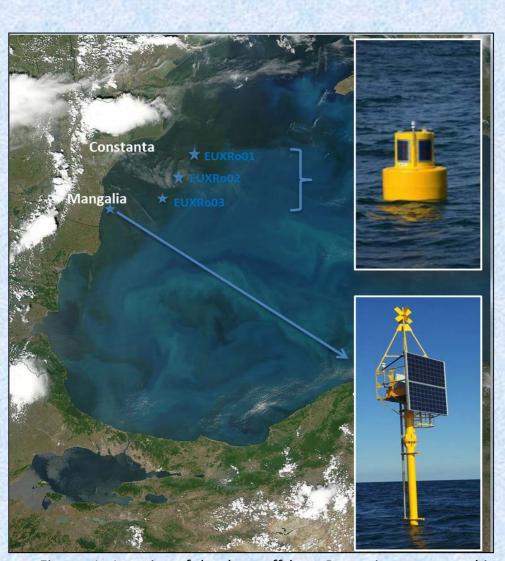


Figure. 1. Location of the three offshore Romania oceanographic observatories and the coastal gauge.

Sensor type	Manufacturer	Parameter	Range	Accuracy	Module
All-in-One Weather Sensor	Climatronics	Wind speed (w.s.)	0-50 m/s	±0.5 m/s	SRB&CG
		Wind direction	0-360°	±5°@w.s. +2.2 m/s	SRB&CG
		Temperature	-40°C to +50°C	±0.2°C	SRB&CG
		Pressure	600–1100 hPa	±0.35 hPa@25°C	SRB&CG
		Compass		±2°	SRB&CG
Z Pulse Doppler current sensor	Aanderaa	Current speed	0-300 cm/s	±0.15 cm/s	SRB&IML&CG
		Current direction	0-360°	±5° for 0–15° tilt	SRB&IML&CG
		Tilt	Magnetic 0–45°	±1.5°	SRB&IML&CG
AADI Optode 4835	Aanderaa	Oxygen concentration	0–500 μΜ	<8 μΜ	SRB&CG
		Air saturation	0-150%	<5%	SRB&CG
AADI 4880/4880R	Aanderaa	Temperature	-4 to +36°C	±0.03°C	SRB&IML&CG
AADI 4319B	Aanderaa	Conductivity	0–75 mS/cm	±0.0018 S/m	SRB&IML&CG
		Temperature	−5 to +40°C	±0.1°C	SRB&IML&CG
AADI 4112B	Aanderaa	Turbidity	0-500 FTU	200 mV/FTU	SRB&CG
AADI 4646C	Aanderaa	Pressure	0–3100 kPa, ≈300 m	±0.04% FSO	SRB&IML
		Temperature	0-36°C	±0.2°C	SRB&IML
CYCLOPS-7	Turner Design	Chlorophyll in vivo	0-500 μg/1	$MDL = 0.025  \mu g/l$	SRB

Table 1: The description of the sensors installed on the buoys.

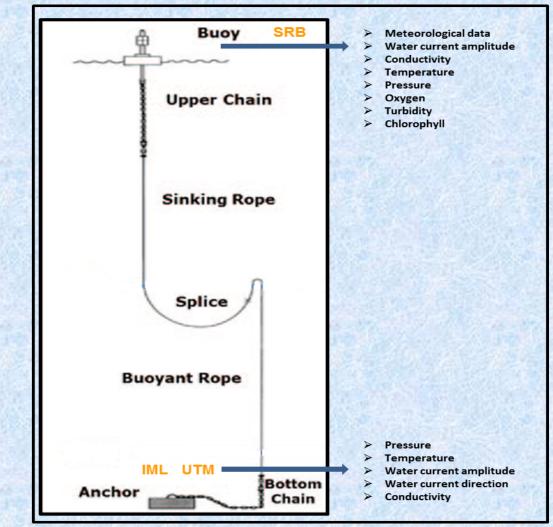


Figure 2. The main modules of the offshore buoys and the measured parameters

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