

## R/V "Professor Logachev"



### Types of activity

- 2D seismic reflection/refraction survey
- Hydromagnetic investigations
- On-board gravimetric investigations
- Geological sampling



## Vessel Specifications

Owner	SE PMGE
Port of Reg.	St.-Petersburg
Flag	Russia
Builder/Year	Nikolaev, Ukraine/ 1991
Project	12283M
Classification	KM L2 A2
Register number	M-42153
IMO	8834691
Call sign	UIJT
GMDSS	FELCOM-12 FURUNO
Communication	Inmarsat Mini-M

## Main Characteristics

Length, Width, Draft	104.5 mx 16mx 5.8m
Deadweight	1720 tons
Register Tonnage:	
Gross/Net:	4504 tons/1351 tons
Displacement:	
Empty/Loaded	3900 tons/5620 tons
Main Engines	2 x 6CHN40/46-0M4
Power	2 x 3500 h. p.
Thrusters	2 x BP-1288/ 680 h.p.
Cruising Range	21 000 nautical miles



<b>Cruising Speed:</b>	
<b>Econom./Max.</b>	8 knots/12 knots
<b>Endurance:</b>	
<b>Fuel</b>	90 days
<b>Water</b>	not limited
<b>Food</b>	70 days
<b>Fresh water capacity</b>	64.8 tons
<b>Fuel capacity :</b>	
<b>Heavy/light/oil</b>	1117 tons/102.8 tons/48.1 tons
<b>Fuel consumption</b>	20 tons- cruise, 10 tons-
<b>Maximal (per day)</b>	survey, 3 tons on the stop
<b>Air conditioning System</b>	
<b>Cranes</b>	2, tonnage 3 tons and 5 tons
<b>Radars</b>	FURUNO FR-2115, FR-2835
<b>GPS receiver</b>	Ashtech GG-24
<b>Automatic vessel</b>	
<b>Control system</b>	ASUD-5
<b>Gyrocompass</b>	Vega-M
<b>Echosounder</b>	NEL-1M
<b>Inductions log</b>	IEL-2M
<b>Life boats ZSSR-2M</b>	2 x 55 persons
<b>Life rafts PSNS-20</b>	2 x 20 persons
<b>Life rafts PSN-10M</b>	4 x 10 persons
<b>Life jackets</b>	101
<b>Accommodation:</b>	46 cabins
<b>Client</b>	10 persons
<b>Crew</b>	42 persons
<b>Scientists/surveyors</b>	38 persons



<b>Research Equipment</b>	
On-board computer center	
System of deepwater geological survey (television and geoaoustics)	MAK-1M
Long-range sonar (12 x 2 km)	OCEAN
Hydrophysical sonde	Sea Bird Electronics SBE 911 plus/SBE 32 Carousel (12 x 5 1)
Seismic station with pneumatic gun sources (6 channels)	Puls-6, seismic cable GEKA-PRAKLA
Electro-hydraulic grab with television control	PGS-4/M (sampling up to 1.5 cub. meters)
Box-corer (50 x 50 x 50 cm)	600 feet
Hydrostatic grab with television control	DG-1 (sampling up to 0.5 cub. meters)
Box-sampler (40 x 40 x 1500 cm)	KP-1.5
Box	
Vibroimpact sampler (6-18 meters)	"Ocean"
Hydrostatic percussion tubes (6-18 meters)	
Gravity sampling tubes (3-18 meters)	
System of underwater navigation (long-base and ultra short-base)	SIGMA-1001



<b>Auxilliary Research Equipment</b>	
<b>Electric compressor</b>	2 x EK-7.5
<b>Heavy cargo boom for ROV:</b>	
- cargo-carrying capacity	16 tons
- velocity of the lifting	12 M/MIN
<b>Automatic hoist for towed devices:</b>	
- cargo-carrying capacity	2 tons
<b>Crane for bottom sampling:</b>	
- cargo-carrying capacity	5 tons
<b>Winch for towing of deep-water systems:</b>	
- tractive effort	160 kN
<b>Winch for seismic cable:</b>	Rauma Reppola
- tractive effort	12kN
<b>Electric winch for magnitometer:</b>	
- tractive effort	2.5kN
<b>Geophysical winch:</b>	Rauma Reppola
- tractive effort	25 kN
<b>Geophysical winch:</b>	Rauma Reppola
- tractive effort	5 kN