SEALIFT LINIENAGENTUREN GMBH
Ausschlaeger Weg 71-73
D-20537 Hamburg / Germany
Tel. +49-(0)40-25154316
Fax. + 49-(0)40-25154344

R/V “Akademik A. Karpinsky”

Types of activity

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

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Specifications and main technical characteristics of the vessel

Project	12883M
Flag	Russia
Port of registry	Saint-Petersburg
Call Sign	1.11Z0
Classification	KM(*) L2 [1] A2 (Russian register)
Registry No.	830588
IMO No.	8227238
Year/Place of building	I984/Nilcolaev (Ukraine)
Length, m	104.5
Width, m	16
Draft, 171	6.9
Registered tonnage (gross/ net), tons	4430/1329
Displacement (empty/ loaded), tons	3833/5715
Cruising speed maximal, knots	15 (with 2 engines)' 11 (with I engine)
Cruising speed economical, knots	13 (with 2 engines)' 9 (with 1 engine)
Fresh water capacity, cub.mni	89
Fuel capacity, ions	1240 (heavy)/88 (ligin)/44.6 (oil)
Endurance, days	100
Main engines (type/power	2 x Pielstic PC2.5-400/3500 h.p. each(Rassia)
Radars	Furuno FR-2115, Furuno FR/FAR-2835 (Japan)
Communications equipment	Inmarsat Fleet77, Inmarsat MINI-M, Inmarsat-C
GMDSS	Funmo FS 1562-15, Furuno FM 8500 (Japan)
GPS receivers	Funmo GP-80 (Japan), Briz-K (Russia)
Gyrocompass	Vega-M (Russia)
Log	IEL-2M (Russia)
Navigational echosounder	NEL-1M (Russia)
Hydrographic echosounder	GEL-3 (Russia)
Automatic system of vessel control	ASUD-4 (Russia)
Safety equipment: **- boats ZSSHR-2M** **- rafts PSN-10M** **- jackets**	 2x55 persons 10x10 persons 101

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Technical specifications of equipment Seismic equipment Recording system	
Type	MSX
Manufacturer	INPUT/OUTPUT Inc. (USA)
format	SEG-D
Recording tape media	IBM 3590 Tapes
Recorders	4 x IBM 3590 Magstar
QC system	EVP monitor, plotter 0Y0 GS-624-24"

Energy source	
Type	Sleeve Gun SG-IIB (INPUT/OUTPUT Inc., USA
Number of subarrays	2
Number of guns in subarrav	9
Length of subarray	15 meters
Distance between subarrays	7 meters
Hose bundle length	600 feet
Source volume	2860 cub. inches
Gun controller	LongShot (Real Time Systems Inc., USA)
Timing	0.1 cosec
Compressors	EK-30A2, 6 x EX-7.5 (Russia
Source nominal pressure	2000 psi
Peak Pressure	73.1 barn)
Winches	2 Gun and 4 Auxiliary (ODIM A/S, Norway)

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Streamer	
Type	MSX-6000
Manufacturer	INPUT/OUTPUT Inc. (USA)
Active cable length	6000 meters
Lead-in length	560 meters
Number of channels	480
Number of active sections	60
Length of active section	99.7 meters
Diameter of section	256"
Type of cable oil	Isopar M
Group Interval	125 meters
Hydrophones per Group	l4
Hydrophone type	Teledyne T-4
Sample rates	0.5, 1, 2, 4 cosec
Low cut filter	Analog 2 Hz, 6 dB/octave
High cut filter	103-824 Hz (depends from sample rate), 256 dBoctave
Seismic winch	Capacity up to 6000 meters (ODIM A/S, Norway

Streamer control devices	
Type: -without -with compass	 13 DigiBird 5010 12 Exportable Compass DigiBird 5011E
Manufacturer	INPUT/OUTPUT Inc. (USA)
Streamer communication	Serial FSK, 26 kHz, 2400 bit/sec
Heading sensor: -	DigiCOURSE Model 321 Magnetic Compass *03°
Accuracy of depth sensors	+0.15 meters

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Sonobuoys	
Type	Sprut (Russia)
Number Sonobuoys	4
Sample rate	2(4)mscc
Registration time	Up to 32 sec
Max range	Up to 60 km
Effective range (calm sea)	40 km
Minimum transmitting life	18 hours
Frequency range	5-65 Hz

On-board seismic processing	
System	SDS-PC (Russia) IBM PC w/ProMax 2D 2003.3 (on request)

Other equipment Gravimeter	
Type	MGK"CHETA-AGG" (Marine Gravimetry Complex((Russia)
Static accuracy	1.0 inGal
Accuracy for the reduced gravity	1.0 mGal
Drift	6.0 mGgal/month
Sampling interval	0.16 sec
Measuring range	Up to 7000 mGal
Features:	Digital data registration, on-Tine quality control

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Magnitometer	
Type	DMV “VOSTOK” (Proton Differential Magnetometer) (Russia)
Resolution	2 sec
Absolute accuracy	1.0 nT
Sensitivity	0.01_rtT
Range	22000-80000 nT
Sensor cable length	Up to 450 m
Features	Digital data registration, on-Tine quality control

Accommodations	
Crew/scientific staff, persons	39/48
Cabins for crew/scientific staff: - single cabins - cabins for two - cabins for four	47 11 34 2
Medical aid room	1
Gym-hall	1
Bath	1
Sauna	1
Dining-hall for 48 persons	1
Mess-room for 14 persons	1