



# RESEARCH VESSEL PROFESSOR LOGACHEV

B 27.7

ECAT2 252, ECAT2 253

NAVI Sailor NS4000 EDIS

NAVTEX NT-1800JMS-1

FELCOM -12 FURUNO

Skipper Electronics CDS 101

Navigat, OCTANS IV

ACM-CAB24-800

Skipper DL 850

VAİSALA

TRANZAS T701, TRIMBLE SPS 351

VSAT SeaTel-9707D-70, Fleet-250

## VESSEL SPECIFICATIONS

Project 12883M

Built 1991, Nikolaev Shipyard

Year of modernization 2016

Shipowner "Polar Marine Geosurvey Expedition" Register class KM L2 [1] AUT2 special purpose ship Russian Federation Flag

Registry number 8934691

Port of Registry Saint-Petersburg

IMO identification N 8834691

**MMSI** Call sign **UADZ** 

# MAIN SPECIFICATIONS

Length, width, draft 104,5 m; 16 m; 5,8m **Engines** 2ME, iCE (64H40/46-OM4) 5152 kW

Reserves: Endurance: light oil 1200 t Fuel 85 days

oil 48,1 t Provisions 70 days water Operational speed/ fuel consumption 64,8t

provisions (days): 22,8 t

Deadweight 2 engines 13,5 knots / 20 t 1750 t Register tonnage, t: 1 engine 10 knots / 10 t

gross/nett 4504 / 1351 at anchorage -/3t Displacement: full Cruising range 21 000 miles 5612 t Crew / Scientists 32 / 37 persons

## MAIN VESSEL EQUIPMENT

#### RADIO NAVIGATION AND COMMUNICATION SYSTEMS AUXILLARY EQUIPMENT

Radars

Bow Azimuth thruster GRA 1350 Shaft 500 kW 2 x 1600 kW generator IFC2 564-4 Emergency diesel-generator D-16C-A

Emergency diesel-generator 12t x 20m Crane (stern) YQ 12-20 Crane (central) YQ 5-14 5t x 14m Water distiller SWD-25-85

Freshwater heaters PC-30 2 pcs System of waste disposal

Separator of bilge-ballast water Biological water treatment ECOMAR-50

21 m3/day

GPS/GLONASS Receiver Mapping system (ECDIS) 3 x 450 kW Induction log 100 kW Receiver Communication Satellite station GMDSS system 2 x 25 t/days Gyrocompasses

Echo sounder Meteo station Telephone station

LIFE-SAVING EQUIPMENT

FIRE-EXTINGUISHING SYSTEM

10 m3/h

MPC Lifeboats 2x40 pers Fire alarm system Life rafts (PSN-10, PSNS-20) 4x10 pers, 2x20 pers Fire smothering system **KASKAD** 

### SURVEY SYSTEM AND LIFTING EQUIPMENT



Movement control system

USBL/LBL underwater navigation system Towed acoustic system (sonar/profiler)

Electric field channel (EP)

Remotely operated vehicle (ROV)

Towed television system Multibeam echosounder Hydrophisical sonde

Hydraulic grab with TV-control (for hard rock) Hydraulic grab with TV-control (for half rock)

Sampling equipment

Laboratories (in the vessel's hull) Laboratories (in the 20 ft containers) NAVIS JP4000

HiPap 101 (accuracy - 0,2% of slant range)

MAK-1M-1

Together with MAK-1M-1

SubFighter 30k (with multibeam echosounder SeaBat 7125)

**SPERRE** 

ATLAS Hydrosweep MD/30

SBE 911 plus/SBE 32 Carousel/ADCP

GK-6T (more than 1m3)

DG-1 (up to 1m3)

Kasten corer, Box corer, gravity pipe corer, dredges

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### LIFTING EQUIPMENT:

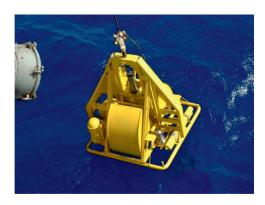
Hydraulic stern A-frame
Hydraulic portside A-frame
L-frame starboard
Transit cable winch
Cable winch
Wire winch

12t (for towed vehicles)
20t (for heavy vehicles)
10t (for sampling)
16t (for MAK-1M-1)
16t (for TV and ROV)
16t (for sampling)

Wire winch 16t (for sampling)
Oceanographic winch 3t (for STD)



Hydraulic grab with TV-control (for hard rock)



Hydraulic grab with TV-control (for half rock)

## TYPES OF WORK



- -- COMBINED SONAR/PROFILER/ELECTRICAL SURVEY
- --PHOTO-TELEVISION AND BOTTOM MULTIBEAM SURVEY
- --STUDY OF HYDROPHISICAL AND HYDROCHEMICAL PARAMETERS OF WATER
- --MULTIBEAM ECHOSOUNDER (HALL) SURVEY
- --GEOLOGICAL SAMPLING
- -- ENVIRONMENTAL MONITORING
- --SEARCH AND PHOTO/VIDEO SURVEY OF THE SUNKEN OBJECTS

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