INSTITUTE OF OCEANOLOGY – BULGARIAN ACADEMY OF SCIENCES

IO-BAS FLEET

R/V AKADEMIK

Ship owner: Bulgarian Academy of Sciences
Operator: Institute of Oceanology – Varna
Flag: Republic of Bulgaria
Port of Registry: Varna

Displacement 1225t
Dead-weight 309.61t
Length 55.50m
Breadth 9.80m
Draught 4.80m
Cruising speed 9,5 kn

Main engine: SKL type NVD 48 AU = 1000hp at 375rpm
Maneuverable propulsion complex: electro-rudder screw adjustable step
Generators: 2x64N-18/22 = 2x150 kw and 2x64 -18/22 = 2x100 kw 380V 50Hz
Main generators, 1 x DGA50M2 -9R emergency generator = 1x50kw, 380V 50Hz
Power: 380V 50Hz or 220 / 127/12V 50Hz by transformation, 24V DC

3-person submersible PC-8B

PC –8B has been operated since 1987.
Main characteristics:
Operating depth – 250m
Deadweight – 5t
Length – 6,5m
Crew – 2+1
Range of underwater cruise – 5 n miles
Endurance underwater – 5 hours
Scientific equipment – photo-camera, video-camera, manipulator, sampling devices

BEFORE RECONSTRUCTION

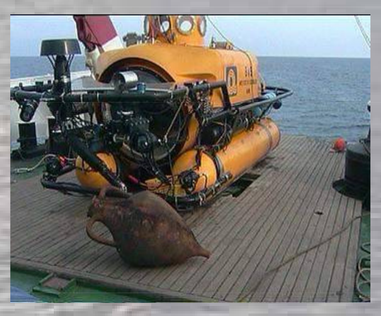
AFTER RECONSTRUCTION

NAVIGATION EQUIPMENT
GPS – 3 pcs.
GPS compass
GMDSS
Echo sounder – 3.
Meteo STATION
Doppler lag

COMMUNICATION EQUIPMENT
Inmarsat
GMDSS
Local computer network

Laboratories

Accommodation



EQIPMENT

Multibeem echo sounder
System
SeaBat 7111

SIDE SCAN SONAR
KLEIN MODEL 3000
DIGITAL

Simrad EK60

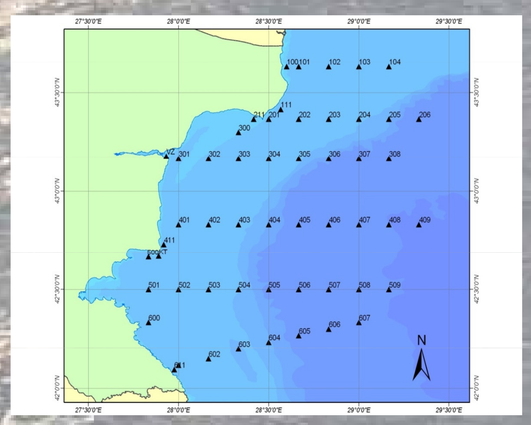
WINCHES

Gravity corer

INTERNATIONAL RESEARCH CRUISES

HYDROBLACK	- 1991
COMSBLACK	- 1992
COMSBLACK	- 1995
Black Sea USA-BG	- 2002
BLACK SEA RECOVERY	- 2003
BLACK SEA RECOVERY	- 2004
Bio-optics of the Black-Sea	- 2006
BLACK SEA RECOVERY	- 2006
WHOI-IO Black-Sea'2006	- 2006
SESAME	- 2007
SESAME - 5 cruises	- 2008
SESAME	- 2009
Bio-optics of the Black-Sea	- 2009

NATIONAL MONITORING SET



USEFUL LINKS:

www.io-bas.bg

http://www.marinetraffic.com/ais/

12th ERVO Annual Meeting ,5-6 May 2010,NOC, Southampton,UK