CEFAS ENDEAVOUR

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A multi-disciplinary research vessel

A ship built to exacting standards, optimising safety and minimising environmental impact

A superb platform for exploring the marine environment

Principle Particulars

LOA (excluding stern roller)	73.00m
Length Extreme	73.916m
LBP	66.50m
Beam Moulded	15.80m
Depth Moulded	8.20m
Design Draft	5.00m
Deep Draught	5.50m
Net Lightship	2436T
Deadweight @ 5.00m	784T
Deadweight @ 5.5m	1244T
Displacement @ 5.00m	3210T
Displacement @ 5.5m	3680T
Gross Tonnage	2983
Net Tonnage	894
Power Generation	3240Kw
Power Propulsion	2230 Kw
Trial Speed	14.4 knots
Bollard Pull	29 tonnes
Official Number	906938
Call Sign	VQHF3
MMSI	235005270
Lloyds/ IMO number	9251107
Year of Build	2003
Port of Registry	Lowestoft
Builder	Ferguson Shipbuilders Ltd

Endurance
42 days

Machinery
3 x diesel electric AC generators, individually raft mounted
2 x tandem electric DC motors
Single screw
Emergency/harbour generator
Bow thruster (flush mounted azimuthing)
Stern thruster (tunnel)

Deck Machinery
25 tonne stern A-frame
7 tonne articulated side A-frame
3 x cranes 35tM, heave-compensated
2 x trawl winches
2 x net drum winches, (1 double)
Double barrel survey winch with motion compensation and slip rings
Double barrel survey winch with slip rings
Double barrel towing winch with slip rings
Side-scan sonar winch with slip rings
3 x Gilson winches (one fitted to stern A-frame)

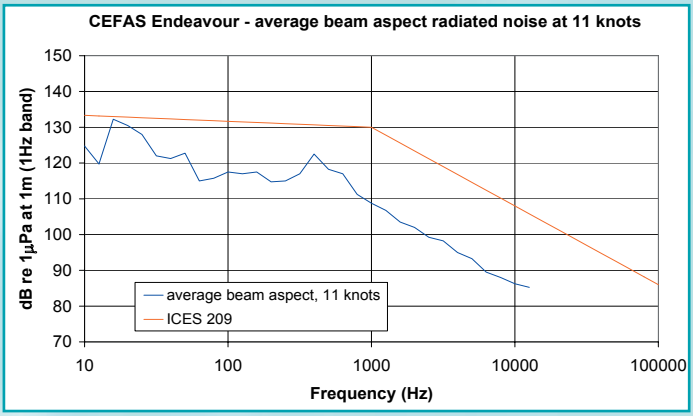
Transducers/Sea tube
Drop keel to deploy transducers outside the hull boundary layer in addition to hull mounted transducers
1.2m diameter sea tube/moon-pool

Scientific Acoustic Equipment
Kongsberg Simrad:
HiPAP 500 positioning sonar
EK60, 38/120 kHz scientific sounder
EA 600, 50/200kHz scientific sounder
ITI net mensuration system
SH80 high frequency omni-directional sonar
EM3000 swathe bathymetry sounder

Hull-mounted Scanmar fishing computer transducers

Boats
2 x 8m rigid work & rescue boats with suite of navigational equipment deployed on heave-compensated davits

Laboratories:
8 networked laboratories designed for optimum flexibility of purpose
4 serviced deck locations for containerised laboratories



Radiated Noise

One of the world's quietest research vessels; significantly quieter than the ICES 209 Co-operative Research Report recommendations
Acoustic noise reduced to minimum in working spaces and accommodation

Special Features

Dynamic positioning system
Intering anti-roll system
Local Area Network with scientific data management system
Ship-wide general information system
CCTV

Class

LRS 100A1+LMC UMS SCM CCS ICC IP ES(2) DP(CM) ICE class 1D

Complement

En-suite accommodation for 16 crew and 19 Scientists
Dedicated hospital

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The vessel is able to:

- Fish using various types of towed fishing gear in order to sample populations of fish, shellfish and plankton
- Tow survey equipment at speeds of up to 14 knots over the ground and through the water
- Conduct diverse acoustic surveys
- Operate in dynamic positioning (DP) mode
- Deploy and recover floating and seabed monitors
- Make physical and chemical oceanographic observations
- Provide a safe working platform with excellent sea-keeping properties, in open ocean and continental shelf seas
- Maintain low levels of acoustic noise onboard and low underwater radiated noise signature
- Accommodate operations in spacious and flexible laboratory and working deck facilities

CEFAS

The Centre for Environment, Fisheries & Aquaculture Science

SOLVING PROBLEMS IN FISHERIES AND THE ENVIRONMENT