

# RV Cefas Endeavour


## Specification Sheet



Centre for Environment,  
Fisheries & Aquaculture  
Science



**Cefas**

An aerial photograph of the RV Cefas Endeavour, a large blue and white research vessel, docked at a pier. The vessel is equipped with various scientific instruments and has a yellow crane on its deck. A smaller blue and white boat is visible in the water to the left. In the background, a city with residential houses and commercial buildings is visible along the waterfront. A large, stylized blue and white wave graphic is overlaid on the right side of the image.

**RV Cefas Endeavour is Cefas' multi-disciplinary research vessel built to ICES 209 underwater radiated noise standards.**

**RV Cefas Endeavour provides an effective and economic platform for scientific and commercial surveys in support of Government and industry projects, including for renewable energy customers.**



# General Information

## General

<b>Owner</b>	Centre for Environment Fisheries & Aquaculture Science
<b>Year Built</b>	2003
<b>Classification</b>	100A1 ICE CLASS 1D, ICC, LMC, IP, UMS, CCS, DP(CM), Propulsion Drives in tandem, SCM, Multipurpose Research Vessel
<b>Registration Port</b>	Lowestoft, United Kingdom
<b>Flag</b>	British
<b>IMO No.</b>	9251107
<b>MMSI</b>	235005270
<b>Call Sign</b>	VQHF3

## Accommodation

<b>Marine Crew</b>	17 berths
<b>Charterers</b>	16 en-suite berths c/w TV: ➤ 2 x twin berth ➤ 14 x single berth
<b>Welfare Facilities</b>	2 x Lounge Areas (incl. 1 x smoking lounge) 1 x Main Mess 1 x Duty Mess (Main Deck) 2 x Gymnasium Laundry facilities

## Fuel and Indicative Consumption

<b>Fuel Type</b>	Marine Gas Oil (MGO)
<b>In-Port Use</b>	1.0 tonne per day
<b>Transit Speed</b>	5.5 tonnes per day
<b>Economic Speed</b>	4.8 tonnes per day

## Main Characteristics

<b>Length</b>	73.92m (OA) 67.30m (PB)
<b>Beam</b>	16.11m (OA) 15.80m (Moulded)
<b>Depth</b>	8.20m (Moulded)
<b>Draft</b>	5.50m (Sea) 5.00m (Harbour)
<b>Draft (with blade deployed)</b>	8.75m (Sea) 9.25m (Harbour)
<b>Tonnage</b>	2983T (Gross) 894T (Net)
<b>Speed</b>	13.6 knots (Max) 10.5 knots (Service) 10.0 knots (Economic)
<b>Endurance</b>	c.45 days

## Main Equipment

<b>Main Engines</b>	3 x Wärtsilä 6L20, 1000kW / 660v 50Hz 3ph 1 x Cummins N14, 250 kVA / 415v 50Hz 3ph
<b>DC Drives</b>	2 x Ansaldo electric motors (each 1150kW, 0-150 rpm) 729v ripple DC
<b>Propulsion Power</b>	2300 kW
<b>Bow Thrusters</b>	820kW Schottel pump-jet, omni-directional
<b>Stern Thrusters</b>	380kW Brunvoll tunnel, CP
<b>Bollard Pull</b>	29 tonnes
<b>Electrical Systems</b>	415v 3ph 225A / 240v 1ph 120A 50Hz





# Equipment & Facilities

## Deck Equipment

<b>Starboard Side Gantry</b>	1 x 7.5T articulated A-frame c/w : ➤ 1 x 5.8T Double barrel coring (12mm anti-twist wire) / towing (four pass SM fibre capability) winch with motion compensation: ➤ 1 x 5.8T Double barrel hydrographic (4mm)/coax (8mm) winch
<b>Stern Gantry</b>	1 x 25T stern A-frame (c/w 5T Gilson winch) with 5.0m clearance
<b>Survey Winches</b>	1 x 5.3T Double barrel survey winch (suitable for 2000m @ 12.2mm and 22mm) 1 x 5.3T Double barrel survey winch (Main Cable A) 1 x 5.3T Double barrel towing winch (with a four pass SM fibre capability (Main Cable B) 1 x 5.3T Side scan sonar winch (11.4mm) 2 x 5.5T Tugger winches
<b>Fishing Winches</b>	2 x 32.9T auto-trawl winches (2400m @ 28mm) 1 x 18T single net drum winch (10,000m @ 16mm rope) 1 x 24T split net winch
<b>Cranes</b>	2 x 3T Main Deck cranes
<b>Boats</b>	2 x 8m rigid work / rescue boats (c/w GPS and sounder)

## Survey Facilities

<b>Laboratories</b>	1 x Plot/Con/Computer Lab 1 x Wet Lab 1 x General Lab 1 x Electronics Instrumentation Lab 1 x CTD Lab (Garage)
<b>Lab Annexes</b>	1 x Constant Temperature Room (c.4-25°C) 1 x CTD Annex 1 x Dry Annex (c/w LEV)
<b>Deck Space</b>	310m <sup>2</sup> (c/w 5 x serviced 20' container locations)
<b>Cold storage</b>	4m <sup>3</sup> Holding Freezer (-24°C) 4m <sup>3</sup> Blast Freezer (-30°C) Portable Ultra Low Temperature Freezer (-80°C)

## Scientific / Survey Equipment

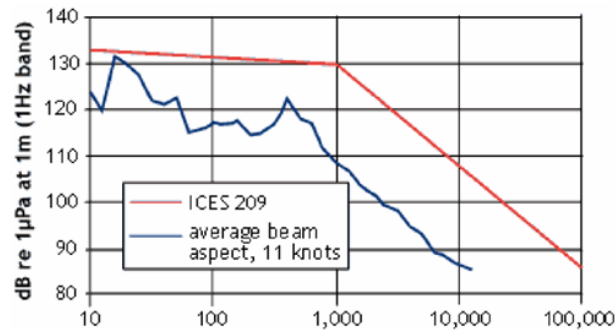
<b>Navigation &amp; Positioning</b>	Dual ECDIS (c/w stand alone scientific ECDIS) Seapath 330 MRU and positioning Navsight-S Rack INS, GNSS RTK, Apogee-I-S IMU - SBG AIS with logging capability HiPAP 501 underwater positioning sonar Kongsberg 3710 DGNSS
<b>Chart Plotters</b>	Transas Navisailor 4000
<b>Hydrographic</b>	Kongsberg EM2040 MBES (0.4° x 1°) EA600 SBES (50kHz) Olex seabed display/logging system EdgeTech 4200 Side Scan Sonar
<b>Oceanographic</b>	RDI workhorse 600kHz ADCP (with bottom tracking)
<b>Fisheries Acoustics</b>	EK80 (38 / 70 / 120 / 200 / 333 kHz) scientific sounder SH80 high-frequency omni-directional sonar Hull-mounted Marport positioning
<b>Water Quality</b>	FerryBox Continuous (CALPS) SBE-911 plus profiling CTD SBE-32 Carousel Water Sampler (12 x 10l bottles)
<b>Environmental Sampling</b>	Day Grab Hamon Grab (mini and standard) Shipek Grab Van Veen Grab HAPS Corer NIOZ Corer Piston Corer (3m max) Fibre Optic HD Camera System (3,000m) Sediment Profile Imaging (SPI) camera (SD) Tintow samplers (plankton)
<b>Drop Keel</b>	Drop keel to deploy associated transducers outside the hull boundary layer
<b>Sea Tube / Moon Pool</b>	1.2 m diameter sea tube/moon-pool with carriages to install additional sensors



# URN and Features

## Underwater Radiated Noise

During the vessels last noise profile check (2003), the following provides the average beam aspect radiated noise at 11 knots.



## Other

### Communications & Networking

Full GMDSS communications c/w:

- 4G Voice/Fax/Data
- Radio TELEX
- Inmarsat C (TT3622B)
- Iridium voice communications
- VSAT Satcom/Internet system
- StarLink

Local Area Network c/w fibre backbone

### Special Features

Intering anti-roll system  
 2 x external marine observation platforms  
 Intelligent Personal Locator Beacon (PLB) system

For further information on RV Cefas Endeavour's specifications, or the vessel's current survey programme, please contact Marc Whybrow, Michelle Kay on +44 (0) 1502 562244, or Email - [rvenquiries@cefas.co.uk](mailto:rvenquiries@cefas.co.uk)

SCAN ME



To learn about Cefas scan the QR code or visit [linktr.ee/CefasGovUK](https://linktr.ee/CefasGovUK)

# SCIENCE IS

# GREAT

BRITAIN & NORTHERN IRELAND



Cefas is a world leader in marine science and technology, providing innovative solutions for the aquatic environment, biodiversity and food security. For world-class expertise, choose the UK.

*RV Cefas Endeavour*  
Cefas

[www.great.gov.uk](http://www.great.gov.uk)

