RV Cefas Endeavour is a multi-disciplinary research and survey vessel which is managed by Cefas.

With a home port close to the Cefas laboratory in Lowestoft, RV Cefas Endeavour was built to exacting standards, optimising safety and minimising environmental impact.

The vessel provides an effective and economic platform for scientific research and commercial surveys in support of projects from a range of industry sectors including renewable energy, oil and gas, and telecommunications.
General

Name - Cefas Endeavour
Owner - Defra
Manager - Cefas
Operator - P&O Maritime Services Ltd, Glasgow
Builder - Ferguson Shipbuilders Ltd, Glasgow
Year Built - 2003
Type - Research Vessel
Classification - 100A1 ICE CLASS 1D, ICC, LMC, IP, UMS, CCS, DP(CM), Propulsion Drives in tandem, SCM, Multipurpose Research Vessel
Port of Registration - Lowestoft, UK
Flag - British
IMO No. - 9251107
MMSI - 235005270
Call Sign - VQHF3

Main Characteristics

Length OA/PB - 73.92m/67.30m
Beam - 16.11m/15.80m
OA/Moulded Depth Moulded - 8.20m
Draft at Sea/ Harbour - 5.50m/5.00m
Draft (with blade deployed) at Sea/ Harbour - 8.75m/9.25m
Gross/Net Tonnage - 2983T/894T
Speed Max. - 13.6 knots
Speed Service - 10.5 knots
Speed Economical - 10.0 knots
Endurance - 30 Days
Deck Space - 310m²

Accommodation

Berths - 35 Total
Marine Crew - 17
Charterers Cabins - 2 x twin en-suite
(Pullman Berth)
- 14 x single en-suite

Fuel & Consumption

Fuel - Marine Gas Oil
In Port - 1.0 tonne per day *
Transit Speed - 5.5 tonnes per day *
Survey Speed - 4.8 tonnes per day *

* fuel consumption rates are indicative only

Main Equipment

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side Gantry</td>
<td>- 7.5 tonne articulated side A-frame</td>
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<tr>
<td>Stern Gantry</td>
<td>- 25 tonne stern A-frame</td>
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<tr>
<td>Winches</td>
<td>- 2 x trawl winches&lt;br&gt;- 2 x drum winches (1 x double)&lt;br&gt;- Double barrel survey winch with motion compensation and slip rings&lt;br&gt;- Double barrel survey winch with slip rings (with a four pass SM fibre capability)&lt;br&gt;- Double barrel towing winch with slip rings (with a four pass SM fibre capability)&lt;br&gt;- Side scan sonar winch with slip rings&lt;br&gt;- 3 x Gilson winches (one fitted to stern A-frame)</td>
</tr>
<tr>
<td>Cranes</td>
<td>- 3 x 35 tM cranes</td>
</tr>
<tr>
<td>Boats</td>
<td>- 2 x 8m rigid work and rescue boats with suite of navigational equipment deployed on heave-compensated davits</td>
</tr>
</tbody>
</table>

### Other

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications</td>
<td>- In port BT Tel.&lt;br&gt;- Cellphone&lt;br&gt;- Voice/Fax/Data&lt;br&gt;- Radio TELEX&lt;br&gt;- Inmarsat C (TT3622B)&lt;br&gt;- Iridium voice communications&lt;br&gt;- VSAT Satcom/Internet system&lt;br&gt;- HUBBAX cellphone data transfer system</td>
</tr>
<tr>
<td>Special Features</td>
<td>- Intering anti-roll system&lt;br&gt;- Local Area Network with scientific data management system and fibre backbone&lt;br&gt;- Ship-wide general information system&lt;br&gt;- CCTV</td>
</tr>
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### Underwater Radiated Noise Profile

During the vessel’s last noise profile check (2003), the following provides the average beam aspect radiated noise at 11 knots.
## Survey Equipment

### Navigation & Positioning
- Seapath 330 MRU and positioning
- Thales 3011
- Fugro SeaStar Corrections
- CNAV 3050 with PPP corrections
- AIS with logging capability
- HiPAP 501 underwater positioning sonar

### Chart Plotters
- Transas Navisailor 4000
- Sodena system

### Hydrographic Equipment
- Kongsberg EM2040 MBES (0.4° x 1°)
- EA600 SBES (12 / 50 / 200)
- Olex seabed display/logging system (multibeam option)
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- EA600 SBES (12 / 50 / 200)
- Olex seabed display/logging system (multibeam option)

### Oceanographic Equipment
- RDI workhorse 600kHz ADCP (with bottom tracking)

### Fisheries Acoustic Equipment
- EK60 38 / 120 / 200 scientific sounder
- SH60 high-frequency omni-directional sonar (scientific option)
- Hull-mounted Scanmar and Marport fishing net mensuration computer + transducers

### Water Quality
- FerryBox
- pCO2 Sampler
- Marine Litter Sampling system

### Environmental Sampling
- Day Grab
- NIOZ Corer
- Hamon Grab
- Shipek Grab
- Fibre Optic HD Camera System (3,000m)
- SBE-911 plus profiling CTD
- SBE-32 Carousel Water Sampler (24 x 10l bottles)
- Drop keel to deploy transducers outside the hull boundary layer in addition to hull mounted transducers
- 1.2 m diameter sea tube/moon-pool

## Survey Facilities

<table>
<thead>
<tr>
<th>Survey Room</th>
<th>- 1 x survey room with networked workstations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratories</td>
<td>- 1 x wet work laboratory</td>
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<tr>
<td>- 3 x dry work laboratories</td>
<td></td>
</tr>
<tr>
<td>Additional Lab Solutions</td>
<td>- 5 x serviced deck locations for containerised laboratories</td>
</tr>
</tbody>
</table>

## Enquiries

In addition to its obligations to the UK Government, RV Cefas Endeavour is also available for international commercial sector operations and third party charter.

For further information on RV Cefas Endeavour’s specifications, or the vessel’s current survey programme, please contact James Parker or Chris Comyn on +44 (0) 1502 562244 or rvenquiries@cefas.co.uk.