## Vessel details

<table>
<thead>
<tr>
<th>Name</th>
<th>RV Ocean Researcher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Multi-role Survey Vessel</td>
</tr>
<tr>
<td>Year of build</td>
<td>1984</td>
</tr>
<tr>
<td>Reconfigured</td>
<td>2005</td>
</tr>
<tr>
<td>Classification</td>
<td>Lloyds Register 100A1 / LMP / UMS</td>
</tr>
<tr>
<td>Owner</td>
<td>Gardline Shipping Limited</td>
</tr>
<tr>
<td>Flag</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Port of registry</td>
<td>Lowestoft</td>
</tr>
<tr>
<td>ON</td>
<td>705613</td>
</tr>
<tr>
<td>IMO no / Call sign</td>
<td>8207941 / GDLS</td>
</tr>
<tr>
<td>MMSI number</td>
<td>235011460</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Length overall</th>
<th>69.4m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam</td>
<td>14.4m</td>
</tr>
<tr>
<td>Draft</td>
<td>4.9m</td>
</tr>
<tr>
<td>GRT</td>
<td>1,936</td>
</tr>
<tr>
<td>NT</td>
<td>580</td>
</tr>
</tbody>
</table>

### Accommodation

- Berths: 39
- Facilities: Mess, lounge, media room, gym

### Propulsion and machinery

- **Main engine**: Mirrlees Blackstone MB275 (2650bhp)
- **Generators**: 2 x Mirrlees Blackstone ESL8
- **Propulsion**: Single 4-bladed Controllable Pitch
- **Thrusters**: White Gill Azimuth
- **Transit speed**: 8 knots
- **Maximum speed**: 12 knots

### Capacities

<table>
<thead>
<tr>
<th>Fuel capacity</th>
<th>405m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh water</td>
<td>86m³</td>
</tr>
<tr>
<td>Endurance</td>
<td>28 days (nominal)</td>
</tr>
</tbody>
</table>
Vessel details

Bridge equipment

Radar                2 x Sperry Bridgemaster E (S-Band & X-Band)
Autopilot             Simrad AP50
Gyrocompass          2 x SG Brown Meridian Surveyor
Echosounder           Simrad
Communications       V-SAT KU Band
                                Iridium pilot
                                Fleet 250
                                Emergency GMDSS Handhelds (AI-A4)
                                Sat-C telex
                                Internal telephone exchange

Deck area

Crane                3 x HS Marine (Foredeck: 2T SWL @ 7m
                                Starboard side: 2.1T SWL @ 13.4m
                                Main deck: 5T SWL @ 14.4m
                                2 x Grove M977 (1T SWL @ 6m)
A-frame               8T SWL (starboard side)
                                10T SWL (aft deck)

Safety equipment

Rescue boat          Survitech RIB0450 6-person
                                RIB with outboard
Life rafts           6 x RFD Surviva MkIV (20 persons)
Fire fighting        Full complement of fire fighting equipment
                                to meet or exceed SOLAS regulations

Navigation

Positioning systems  Starfix HP/XP & Starpack
                                (primary & secondary)
                                Seapath 200
                                Kongsberg MRU5
Underwater positioning Sonardyne Ranger 2 USBL
Survey computer       Gardline Voyager5
IMU                   Applanix POS-MV 320

Hydrography

Multi-beam            Kongsberg EM710 (1° x 1°)
                                EM2040D
                                EM710
Single-beam           Kongsberg EA 400

Geophysical

Side scan sonar       Edgetech 4200
Sub-bottom profilers  Hull-mounted 16-element pinger
                                Applied Acoustics Squid500 sparker
                                10in² mini airgun
                                EG&G sub & surface tow boomer
(Option)               Innomar 2000 Medium
SV Probe              AML
2DHR seismic          4 x 40in² Texas Instruments sleeve gun
                                cluster
                                Sercel Sentinel digital streamer system (12.5m group,
                                600m/48ch up to 1,500m/120ch)
                                SPW QC
                                Optional ProMAX QC & processing
Depth controllers     Ion 5010 DigiBird / 5011 Compass Bird

Environmental

Shipek / Day / van Veen / Mini Hamon grab samplers
Box corer
Water samplers
Video and stills camera systems

All Gardline vessels meet or exceed international maritime guidance, Statutory Instruments and SOLAS requirements (including FSS code and IMO regulations) for Life Saving Appliances

Vessel capabilities

Active tail buoy     PartnerPlast tail buoy 800
UHR seismic option   Gardline P-Pos GPS transponder
                                6in² or 10in² mini airgun
                                75m streamer (3.125m group/24ch)
                                2 x Hamworthy 4TH190W70
                                (340scfm)
Magnetometer         Geometrics G882

Geotechnical

Neptune CPT
GTeC Roson CPT
NIOZ CPT
Vibrocorer
Piston corer

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