

# Ocean Geograph

Multi-Role Survey Vessel



## Vessel details

<b>Name</b>	Ocean Geograph
<b>Type</b>	Multi-Role Survey Vessel
<b>Year of build</b>	2007
<b>Reconfigured</b>	2021
<b>Classification</b>	DNV, +1A1, ICE-1B, E0, DYNPOS-AUTR, Dk+
<b>Owner</b>	Gardline Limited
<b>Flag</b>	Panama
<b>Port of registry</b>	Panama
<b>ON</b>	52406-21
<b>IMO / Call Sign</b>	9267388 / 3FXF3
<b>MMSI number</b>	372145000

### Dimensions

<b>Length overall</b>	70m
<b>Beam</b>	14.6m
<b>Draft</b>	5.8m
<b>GRT</b>	2733t
<b>NRT</b>	820t

### Accommodation

<b>Berths</b>	48 berths
<b>Facilities</b>	Messroom/rec room/lounge/offices gymnasium/hospital/conference rooms/wet and dry labs/ data processing room/client office/ workshop

### Propulsion and machinery

<b>Main engines</b>	2 Caterpillar 3612TA 3,460 kW (900rpm) total 6920 kW
<b>Generators</b>	2 x Leroy Somner 4, 172 kVA
<b>Propulsion</b>	Single CP propellor (steaming)
<b>Stern thrusters</b>	2 x retractable RR 1,000kW azimuth
<b>Bow thrusters</b>	1 x retractable RR 883kW azimuth ; 1 x RR 900kW tunnel
<b>Dynamic positioning</b>	Class I Kongsberg SDP 21 Reference systems Kongsberg Seapath (DGPS) 330 Kongsberg HiPAP 500 USBL, MDL Fanbeam
<b>Service speed (thruster)</b>	8.5 knots
<b>Maximum speed (main propulsion)</b>	17 knots
<b>Transit speed</b>	10 knots

### Capacities

<b>Fuel capacity</b>	909m <sup>3</sup>
<b>Fresh water capacity</b>	236m <sup>3</sup>
<b>Endurance</b>	28 days +/-2

# Vessel details

## Bridge equipment

<b>Radars</b>	1 x JRC 3cm Radr JMA 5320 7 ARPA 1 x JRC 10cm Radar JMA 5530 12SA ARPA
<b>Autopilot</b>	AGD400
<b>Gyrocompass</b>	C.Plath Navigate X MKI
<b>Echosounder</b>	Skipper GDS 101
<b>Communications</b>	GMS mob. telephones MF/HF radio VHF Simplex & duplex Navtext receiver Immersat F77 Weather fax V-SAT KU-Band/C-band

## Deck area

<b>Deck space</b>	Deck space : 370m <sup>2</sup>
<b>Crane</b>	National Oilwell 20t-9m/double fall AHC 10t-18.5m/single fall 1500m

<b>Stern A-Frame</b>	10T SWL retractable with multiple tow points
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<b>Side A-Frame</b>	1.5 tonne SWL - environmental systems
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## Safety equipment

<b>Rescue boat</b>	Norsafe Magnum 750
<b>Life rafts</b>	25 persons life raft D8B 6pc
<b>Fire fighting</b>	Full complement of fire fighting equipment to meet or exceed SOLAS regulations

<b>Navigation</b>	MARIS ECDIS 900
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<b>Positioning systems</b>	Oceaneering C-Nav 3050/5000 Hemisphere GNSS
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<b>Survey Computer System</b>	Gardline Voyager5
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<b>Acoustic Positioning</b>	Kongsberg HiPAP 500
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# Vessel capabilities

## Hydrography

<b>Multi-beam</b>	Kongsberg EM2040 Dual Rx 0.40 x 0.70 2-400kHz
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<b>Single-beam</b>	Kongsberg EA600 30/200kHz
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## Geophysical

<b>Side scan sonar</b>	Dual sonar winches; Edgetech dual frequency 100-900kHz configurable
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<b>Sub-bottom profilers</b>	Gondola mounted 16 element Pinger 3-10kHz, Gondola mounted Innomar SES-2000 Medium 100 Deep parametric profiler 3-20kHz
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<b>SV Probe</b>	Underway SVP (Rapidcast) static Valeport
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<b>2D/3D UHR seismic</b>	Source: Dual AAE Duraspark dual level 2KJ Sparker, CSP-SNv 1250 power supply; hydrophone/recorder: single channel SBPNet recorder, single or multi-channel receiver solutions; multi-channel: Gardline uSeis 96 channel 1m group with GPS head/tailbuoy; GeoEEL/Teledyne 48 channel. 3.125m group
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<b>Magnetometer</b>	Single or dual Geometrics 882 TVG; Single or dual EIVA Scanfish 3D ROTV, equipped with 4 x G882 magnetometers (fixed or tethered)
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<b>Passive Acoustic Monitoring System (PAMS)</b>	Gardline Mk IV
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<b>Processing systems</b>	Gardline Voyager 5 navigation processing; Caris HIPS/SIPS MBES processing; Gardline Geofusion geophysical (SSS/SBP/Magnetometer) processing; ProMAX seismic QC/processing
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<b>ROV options</b>	SAAB Seaeye Cougar XT with TMS and LARS (max 1600m water depth). WROV Shilling HD with TMS and LARS. Various other Inspection and Work Class ROVs available on enquiry
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<b>AUV options</b>	Kongsberg Hugin AUV Kongsberg Munin AUV Teledyne Gavia AUV
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## Geotechnical options

<b>CPT:</b>	APB CPT systems 25/50kN, Datem 5kN CPT system 35kN, deployed via heave compensated crane.
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<b>Coring:</b>	Vibrocoring deployed via heave compensated crane; wet lab and associated workshop space.
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## Environmental options

<b>Camera:</b>	Kongsberg stills video/with Fresh Water Lens
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<b>Grab samplers:</b>	Hamon/Day/Box corer
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\*Vessel specs are subject to change



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