

## Volans Geophysical Survey Vessel



Volans is a dedicated geophysical vessel equipped with analogue and digital 2D-high resolution shallow seismic surveys.

The vessel offers both surface positioning system via StarPack DGPS as its main unit as well as underwater positioning system via Sonardyne Ranger USBL as its main unit.

Volans has a complete set of hydrographic system consisting of ODOM Echotrac MKIII single-beam echo sounder, Valeport MIDAS CTD Profiler, R2 Sonic multi-beam echosounder and Teledyne TSS DMS-H heave compensator onboard the vessel.

A range of analogue geophysical and 2D high resolution seismic system capable of running accurate data acquisition for a number of survey objectives such as bathymetry survey, seabed features as well as subsurface and intermediate zone finding is well within the capability of the vessel.

This geophysical survey vessel has been designed to support the following key areas:

- / Seabed mapping
- / Drilling hazard surveys
- / Cable and pipeline route survey
- / Hydrographic mapping
- / Geographical Information System (GIS) Services



## Vessel details

<b>Name</b>	Volans	<b>Navigation</b>	
<b>Type</b>	Geophysical Survey Vessel	<b>Primary system</b>	1 x Furuno GPS 1 x Koden KGP 98
<b>Year of build</b>	1965	<b>Secondary system</b>	1 x Robertson AP 45
<b>Year of refurbishment</b>	1989	<b>Tertiary system</b>	Furuno RDP-111 & Furuno RDP-118
<b>Flag</b>	Belize	<b>Magnetic Compass</b>	1 x B Cooke & Son
<b>Classification</b>	BV	<b>Echo Sounder</b>	1 x Furuno FCV-668
<b>IMO No/Call Sign</b>	6512122 / V3PP8		
<b>Dimensions</b>			
<b>Length Overall</b>	50.00m	<b>Communications</b>	
<b>Beam</b>	10.00m	<b>SSB Radio</b>	1 x Furuno FS-1503
<b>Draft</b>	3.60m	<b>Navtex Receiver</b>	1 x Furuno NX-300
<b>Clear Deck Area</b>	240m <sup>2</sup>	<b>EPIRB</b>	1 x McMurdo E3
<b>Moonpool</b>	2.0m x 2.0m (midship)	<b>VHF ICOM</b>	4 x Furuno FM3000
		<b>AIS</b>	1 x Furuno FA150
		<b>Fleet Broadband</b>	Fleet 77 Email System
<b>Accommodation</b>			
<b>Berths</b>	37	<b>Deck Machinery</b>	
<b>Propulsion &amp; Machinery</b>			
<b>Main Engine</b>	2 x Stork Werkspoor 850 BHP	<b>A-frame</b>	5 tonnes capacity
<b>Generators</b>	3 x Caterpillar D3406 180kW	<b>Crane</b>	2 tons @ 6m
<b>Propulsion</b>	2 x FPP 1700 BHP	<b>Windlass 10T</b>	2 x 1020kg
<b>Bow thrusters</b>	1 x 210 BHP (Electric)	<b>Safety Equipment</b>	
<b>Stern thrusters</b>	1 x 280 BHP (Azimuth)	<b>Rescue boat</b>	1 x 6 pax with 20 BHP
<b>Maximum speed</b>	9 knots	<b>Life rafts</b>	2 x 25 pax
<b>Cruising speed</b>	7 knots	<b>Life jackets</b>	78 pieces
		<b>Life buoys</b>	6 units
<b>Capacities</b>			
<b>Fresh water</b>	160 MT	<b>Work vests</b>	10 x crew saver
<b>Watermaker</b>	12 MT/day	<b>BA sets</b>	8 units
<b>Fuel oil</b>	160 MT	<b>SART</b>	2 units
<b>Endurance</b>	30 days	<b>Parachute flares</b>	8
		<b>Smoke signal</b>	2
		<b>Hand flares</b>	6
		<b>Line throwing apparatus</b>	4
		<b>Scrambling net</b>	2

## Survey capabilities

### Positioning System

StarPack DGPS  
Vector GPS Heading Reference System  
Gyrocompass TSS Meridian Surveyor  
Sonardyne Ranger USBL  
Motion Sensor: Seatex MRU5

### Navigation Software

Voyager 5 (Gardline in-house software)

### Hydrographic System

Single Beam Echo-Sounder Dual Echotrac MKIII  
Valeport MIDAS (CTD)  
Multi Beam Echo-Sounder R2 Sonic  
Heave Compensator TSS DMS-H

### Seabed Sampling System

3 meter gravity corer with 400m winch

### Analogue Geophysical System

GeoAcoustics 2094D Side Scan Sonar System  
Massa 4 x 4 (Hull Mounted) Pinger  
CODA DA2000 Recording System  
Isys V12 RGS printer  
SeaSpy Marine Magnetometer  
Geo-Spark Sparker System  
Applied Acoustic Boomer System

### 2D High Resolution Seismic System

96 Channel TTS2+ Prakhla Streamer  
TL3 Seismic Acquisition System  
Price Compressor 2000 Psi 240cfm  
4 x 40 cu in & 4 x 20 cu in Sleeve Gun  
Digicourse Birds  
ProMAX QC & Processing System



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