



# RV PRINCE MADOG

general purpose survey ship for charter



## New Build Vessel, launched Summer 2001 Deep Seismic, Geophysics & Geotechnics, Multi role & ROVs

Now available for charter from Atlantic Marine in association with VT Ocean Sciences (a joint venture between Thosper Thornycroft and the University of Wales - Bangor) as the ideal platform for modern marine research, RV Prince Madog had been specifically designed to:

- Provide economical access to coastal seas for short durations.
- Mobilise swiftly for rapid response or opportunistic access to specific events.
- Have sufficient endurance to support longer experiments and surveys.
- Maximise useable deck space, support the servicing of moored instrumentation and accommodate a half-sized standard laboratory container.
- Allow rapid fit and demount of specialist gear, with easy reconfiguration of laboratory space to suit cruise objectives.
- Encourage multi-purpose use and respond to changing scientific priorities.
- Promote the safety of crew and guests.

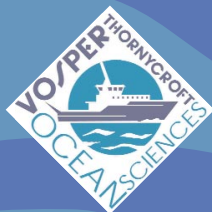
At 35m, she is large enough for 10 scientists to work on interdisciplinary projects in the open sea, for up to 10 days in comfort, and is sufficiently stable platform for the safe launch of ROVs.

The RV Prince Madog is an ideal platform for the testing of new sensors and devices and for technology development.

From her home port at Menai Bridge, North Wales the RV Prince Madog has easy access to the shelf seas west of Britain and its great diversity of marine science opportunity. This location makes RV Prince Madog the perfect choice for offshore and inshore survey activities throughout the UK.

With the capacity to take up to 20 scientists out on day trip basis, training is economical as well as effective. Accommodation is available for up to 10 surveyors for longer projects at sea.

Purpose built shore side facilities adjacent to Menai Bridge pier allow for easy muster of pre-cruise material and instrumentation.



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## Principal Features

Gross Tonnes	350 tonnes
Length Overall	34.9 m
Breadth Moulded	8.5 m
Draft max	3.5 m
Endurance	10 days between ports
Fuel Oil	62.7 m <sup>3</sup> (at 80%)
Fresh Water	32 m <sup>3</sup>
Scientific Berths	9 + 1
Crew	8
Constructed	2001
Vessel Class	Lloyds Register +100 A1 "Research Vessel", LMC (without cross)
Speed	10.5 knots
Propulsion	1080kW Wartsila 6L20C with controllable pitch propeller.
Gearbox	Includes PTO/PTI, a combined Shaft Generator and Slow Speed Drive Motor, which also gives added security as a "get you home" motor. The RV Prince Madog is the smallest research vessel to benefit from this facility.
Bow Thruster	150kW

## Working Areas and Equipment Specifications

Aft deck space 80 m<sup>2</sup>, hardwood.  
2 watertight sockets 240V, 16 A.  
1 watertight socket 240V, 32 A.  
1 watertight socket 110V, 16 A.  
275bar and 7bar air lines.

Deck equipment securing Main deck up to stern gates is hardwood incorporating a matrix of s/s fasteners for equipment, also lashing posts and container fittings.

## Container

The aft deck can take up to a half size ISO container (2.436 x 3.048 m).

## Deck Equipment

2 Rapp TWS-705/B270 split trawl winches arranged for one person operation on main deck. Remote control in wheelhouse and aft deck. Capacity 1000m x 18mm. Pull on 1st layer 9.5 ton /30m/min. Pull on top layer 2.8 ton/108m/min.  
1 Rapp GW200 CDT winch, slip ring for 4 conductors. Capacity 1000m x 8mm. Pull on 1st layer 0.9 ton /51m/min. Pull on top layer 0.5 ton/100m/min.  
1 Rapp GW200 hydrographic winch. Capacity 1000m x 4mm. Pull on 1st layer 0.35 ton /76m/min. Pull on top layer 0.2 ton/100m/min.

1 Rapp HW 100-5 middle winch. Capacity 400m x 14mm. Pull on top layer 1ton/100m/min.

## Hoists

A-frame aft - 5 tonnes SWL. Outreach 4m, Height above deck 6.5m, floodlit.  
Boom starboard - Outreach 2.2m 0.7tonnes.  
Crane aft - Atlas 140.1 marine crane. 14t/m, 12.1m boom reach.  
Crane Foredeck -Atlas 3008 marine crane. 8t/m, 6.5m boom reach.

## Laboratory Area

Wet Lab 29 m<sup>2</sup>. Dry Lab 26 m<sup>2</sup>.

## Wet Lab

Adjacent to aft deck, stainless steel workbenches with deep sinks, fresh water and seawater supplies, power sockets from clean net. Portable fish examination table, dismantlable for storage. Flexible laboratory layout enabled by recessed fixing sockets in deck. Laboratory seawater provided by dedicated pump and non-toxic supply lines. Wastewater drain gutter in non-slip floor, large drains to overboard.  
Dry lab. Fully configurable lab adjacent to bridge with work tops, benches, drawers and storage.  
Provision for 19" rack electronic systems.  
Power sockets from clean net, UK 3 pin type.

## Scientific Equipment ADCP

RDI Workhorse Mariner. 300kHz broadband, hull mounted, remote speed log display.  
Hydroacoustic Position Referencing system.  
Kongsberg Simrad HPR-410P.  
Echo sounder.  
Kongsberg Simrad EK-60 120/38kHz split beam scientific echo sounder.  
Data Acquisition System.  
Kongsberg Simrad MDM-400 Data Management System with Cisco 2503 router for Inmarsat-B.  
Pinger.  
Geoacoustics/ORE 3.5-7kHz Pinger transducer.  
Seabed Discriminating system.  
QTC View Acoustic seabed classification system.  
Underway Sampling and Meteorological package  
W.S.Ocean Systems meteorological and oceanographic sensor suites.  
Water Purification System.  
RIOs 5 Reverse Osmosis system.  
CTD System.  
Seabird 911plus CTD with SBE-13B dissolved oxygen sensor.  
Rochester Corp CTD cable A-303470 x 1500m.  
Speed log.  
Walker Marine Aquaprobe Mk5.

Availability of scientific equipment may be subject to agreement regarding additional technical support, training or instruction as appropriate.

## Freezers and Refrigerators

Laboratory freezers LEC 388 litre chest and 441 litre upright Laboratory refrigerator LEC 441 litre.

## Computing facilities

Windows<sup>®</sup> 2000 server for data collection, display and processing. Unix server for Applications, Email and data communications.

Data acquisition and management software collects the data from scientific and navigation equipment and stores it in a SQL database. The data can be accessed from a number of Client PC's located on the Bridge (1), Dry Lab (2), Chemistry Lab (1), Wet Lab (1) and PSO Cabin.  
Data security and distribution: RAID disk system and DAT tape backup.  
Patch panel system gives Network access throughout the ship: to all Scientists and Officers cabins (2 ports each), Bridge (2 Ports), Dry Lab (8 ports), Chemistry Lab (3 ports) and Wet Lab (1 port).  
The Unix server has Office, Email and data communications applications accessible via the network on Windows<sup>®</sup> based PC's. Email and data communications are available by direct line when alongside at Menai Bridge, GSM mobile phone for near shore work or Inmarsat satellite for any other location. Networked Colour Inkjet and B/W Laser printers provide Hardcopy.

## CCTV surveillance

3 cameras can be positioned to view activity to forward, starboard and aft of the vessel. Monitors are positioned in the wheelhouse and mess. Video signals from scientific equipment can be fed to the onboard network for viewing at computer stations. Wheelhouse has a clear view over working decks and winches.

## Power supplies

415 V / 240 V, 50Hz.  
240 V, 50Hz clean net for sensitive equipment.  
24 V DC net.

## Navcomms Equipment

Plath Gyro/Autopilot.  
Furuno Radar S-band, X-band.  
Furuno Electronic Chart Display.  
Furuno Echo sounder.  
Furuno DGPS.  
Furuno Navtex.  
Furuno Fax.  
Nokia GSM Transceiver.  
Toshiba GSM Fax.  
Inmarsat-B,C.

## Scientist accommodation

1 Principle scientist with en-suite facilities and Pullman style second berth for tenth scientist, if required.  
4 double cabins, 2 bathrooms with shower and 2 WCs adjacent. Cabins are fitted with carpet, settee, table, telephone, clothes locker per person, drawers, 2m berth with lights, washbasin with shaver socket, mirror and towel rails. Ceilings and external walls insulated. Each cabin has an oil filled radiator and is also fed heated air from the ship's air duct system through adjustable cabin ventilator units. These units are also positioned to provide heated fresh air in the wheelhouse, galley, mess room, passageway and laboratories, as required.

## Air conditioning

Dry lab and wheelhouse are air-conditioned.

## Acoustic insulation

"Floating" floors and bulkheads are used for accommodation, laboratories and scientific workshops to insulate against vibration and noise.

## Mess room

29.5 m<sup>2</sup> Sufficient for 28 to 32 persons, divisible by curtain arrangement.

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