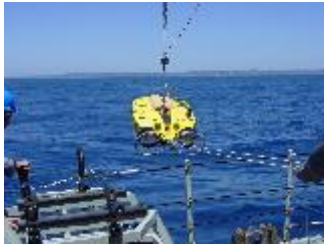


## Speed is often the Enemy of Safe and Efficient Mine Disposal



When asked to provide an overview of the challenges facing alternative mine countermeasure techniques, Royal Navy veteran Neil Hodges, CEO of the Australian firm BlueZone Group, which specialises in robotics and mechatronics for use in coastal seas and deep ocean and 40% of whose work comes from defence projects, told APDR: “In mine warfare terms, speed is often the enemy of safe and efficient mine disposal.”



Navy’s mine countermeasures program is being developed in two separate projects. The existing minehunters are having their lives extended and capabilities increased, while a separate project is acquiring a deployable mine countermeasures capability. One expert cautioned “sending crew into a minefield in a small boat to launch and ROV one-shot mine disposal system to destroy mines is madness!”

[Read More](#)

## SeaBotix and BlueView Simulator for Efficient Operator Training

The Royal Canadian Navy operates a total of six Teledyne SeaBotix simulators with BlueView multibeam sonar across three national locations. The simulator capability includes simulation of dual vehicle missions and a range of training content for Navy ROV pilots, including:

- High fidelity BlueView multibeam sonar
- Surface splash zone dynamics
- Realistic tether and manipulator dynamics

The simulation capability supports team-training using Teledyne SeaBotix and BlueView simulation, with a focus on team-training capacity for multiple surface vessels, launch and recovery systems, and vehicle classes in a single scenario through Common Operating Picture simulation. The Common Operating Picture training mission features six controllable surface vessels with four subsea platforms vehicles (including Teledyne SeaBotix vLBV950, SeaBotix vLBC, an AUV, and Workclass ROV) operating in a single coordinated graphical and dynamic setting in a mine-countermeasures and submarine rescue scenario.



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## Benthos Acoustic Modems Meet NATO’s New JANUS Interoperability Standard



Teledyne Benthos have announced that their Acoustic Modems Meet NATO's New JANUS Interoperability Standard. Put simply, JANUS is an interoperable marine radio channel 16 for digital underwater communications devices. Over the past several years, the standard has been extensively tested at sea in exercises involving a number of partners (universities, industries and research institutions) covering a range of application scenarios.



Teledyne Benthos has participated in a 5-day JANUS Interoperability Fest hosted by the NATO STO Centre for Maritime Research and Experimentation (CMRE), based in La Spezia (Italy), at which various vendors tested their JANUS protocol capabilities. The Teledyne Benthos UTS-9400 deck box and ATM-900 Series Modems were tested and proved their ability to provide an interoperable real-time implementation of the JANUS protocol utilising commercial-off-the-shelf acoustic communication (ACOMMS) hardware.

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## SeaBat® Sonars Delivered to RAN Hydrographic Service

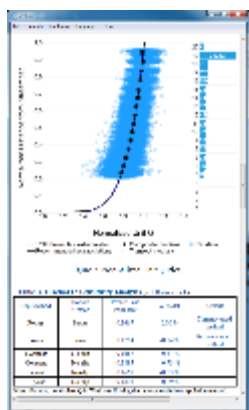
BlueZone Group is pleased to be providing continued support for delivery of Teledyne Reson T50 SeaBat Multi-Beam Echo Sounders (MBES) to RAN Hydrographic Service.

BlueZone GM Oceanographic and Hydrographic, Mark Hegarty, said that the SeaBat® T50 is the new addition to the leading SeaBat® T-series product range engineered from the ground up. Combined with a very compact Rack-mounted Sonar Processor (RSP) the SeaBat® T50-R provides unprecedented survey data, providing faster operational surveys and reduced processing time.



[Read More](#)

## Q-View 2.0 Quality Assessment and Discharge Results All-in-One Report



Teledyne RDI has announced the release of their newly updated Q-View QA/QC software, now designated as Q-View 2.0. RDI has made extensive enhancements to this software based on customer feedback.

The first version of Q-View was heavily focused on assessing the quality of data on-site in the field during data collection. Q-View 2.0 is now more heavily focused on analysing and reporting data after the user has returned to the office. To this end, Q-view now delivers an All-in-One professional report that combines a summary of discharge results with a comprehensive quality assessment.

[Read More](#)

## Top Oceanographers Select Wave Gliders to Study Arctic and Southern Oceans

Top oceanographers from Scripps Institution of Oceanography (Scripps) and the Applied Physics Laboratory of the University of Washington (APL-UW) have

selected Wave Gliders, the most experienced, long duration ocean robots, as their sensor platform to conduct advanced scientific research in the most inhospitable and remote regions of the Arctic and Southern Oceans.

Using Liquid Robotics Wave Gliders, proven in extreme ocean conditions (sea state 6+), scientists will obtain real time data and rare insights into the dynamic conditions that drive the world's weather and climate. This data is critical for scientists to understand and improve global ocean weather modelling and climate prediction.



[Read More](#)

## IMOS Rides a Technology Wave



BlueZone group welcomes the great support for marine science included in the May 2018 Federal Budget. Two of the high priority recommendations in the National Marine Science Plan have been addressed including expanding the operations of RV Investigator and funding for Integrated Marine Observing Systems (IMOS) infrastructure and operations. The funding presents an opportunity for IMOS to be sustained into a third decade. There will also be new investment in IMOS as a mix of much needed capital re-investment and increased operating expenditure. This is fantastic news, and the BlueZone joins the IMOS community in gratitude for the support provided by Australian Government.

[Read More](#)

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## Events

Please join BlueZone Group at these upcoming events!

We are keen to talk to you about how innovative new technologies offered by BlueZone can solve issues for your challenges in Australia's oceans, coastal seas and rivers.

We are happy to answer your questions and arrange on-site demonstrations and further discussion if required.

### Hydro 18 – 30 October to 2 November – Sydney

The Australasian Hydrographic Society (AHS) is hosting the HYDRO18 Conference and Trade Exhibition (HYDRO18) in Sydney. The Conference and Exhibition, with its theme of 'The Climate for Change – Hydrography in the 21st Century' will allow delegates and the hydrographic profession to consider how best to future utilise the science of hydrography to adapt to climate change, resource sustainability and renewable energy requirements. Hydrography is the key to facing the rising tide of climate change, knowing our oceans and understanding our future.

### SIA Biennial Conference – 7 to 8 November - Canberra

The 9th SIA Biennial Conference will be held 7-8 November 2018 with the Opening Reception on Tuesday 6 November at the Canberra Rex Hotel. The theme for the Conference is: Collins Life of Type Extension - Issues and Opportunities.

BlueZone is proud to be the sponsor for the Wednesday Afternoon Session Break. With a wide underwater technology product portfolio and an experienced application engineering team, BlueZone is an experienced and capable systems integrator, designing and supporting systems in COLLINS Class, Minehunter Coastal and Air Warfare Destroyer.

[Read More](#)

## AHA 2018 Conference – 12 to 15 November – Canberra

BlueZone Group supplies Teledyne RDI highly accurate Doppler products for flow measurement and discharge applications in the inland environment. RDI products include a wide array of technical advantages designed to ensure success, providing significant advantages over competitive products and techniques.

RDI ADCP products are further enhanced for field operations by complementary systems including:

Q-View 2.0 QA/QC software. Instant data qualification for the field user, saving you valuable time while ensuring that you've collected the data set you need; and

OceanScience Q-Boat. Remote control Q-Boats for ADCP deployment during river velocity profiling and discharge monitoring offer the ultimate in survey flexibility and personnel safety.

Why not join us to checkout Q-View 2.0 QA/QC software? Q-View 2.0 is now more focused on analysing and reporting data after the user has returned to the office. To this end, Q-view now delivers an All-in-One professional report that combines a summary of discharge results with a comprehensive quality assessment

BlueZone provides full in-country support for RDI products from our fully-equipped workshops in Newcastle, Melbourne and Perth. Our Authorised ADCP service centre ensures that your equipment will be available for your river measurement tasks and our verification service provides confidence in the status of your instrument.

[Read More](#)

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## New Products & Services



### Hydra & Cyclops Video Control Units

OceanTools Hydra is a Pelicase housed unit that can control the operation of up to eight OceanCAM-IP or OceanCAM-IP/ZF high definition IP cameras, plus up to eight PT330 pan & tilt units and eight individual OceanLED or pairs of OceanLED subsea lights.

[Read More](#)

### Brizo - Wave Monitoring & Tide Gauge using GNSS

The Brizo is a highly accurate (1 cm, 3°) directional wave height sensor for placement on moored buoys. Utilizing the lowest power, all signal Global Navigation Satellite System (GNSS) receiver for measurements, the Brizo can relay parameters and spectra for wave periods of 1.6 to 33 seconds on a <1 W power budget. The Brizo can measure both wave height and direction.



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