

Acoustic Doppler Current Profilers

Widespread Applications Stem from Diverse Measurement Capabilities



Rather than a spinning propeller, the Acoustic Doppler Current Profiler (ADCP) - like dolphins and bats - uses sound to explore its environment. Operating underwater, the method works like hand-held radars used by police to catch speeding motorists.

A sound burst is emitted by the ADCP along beams angled downward. Echoes are returned due to scattering off particles carried by water currents. A second burst can be used to track movement over the seabed. By analysing these sound echoes, the ADCP makes four different measurements at once.

Read more about the widespread applications of ADCP technology by Teledyne RDI ADCP guru Dr. Pete Spain at the link below.

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Side Scan Sonar used to locate HMS Beagle anchor near Darwin

Return expedition to use Multi Beam Echo Sounder

An anchor belonging to Charles Darwin's ship is believed to have been found in a remote river in the Northern Territory, strengthening a key link between the European discovery of Australia and the origins of humankind. It was found almost 179 years to the day after the Beagle's crew was forced to abandon it in a remote and hostile, but astonishingly beautiful, part of the country.

BlueZone Group has assisted in the location of the anchor with loan of a side scan sonar to the search team. The expedition in October 2017 utilised towed sidescan & magnetometer systems. This method was successful but difficult to operate in the extreme currents and tides of the Victoria River. The return expedition plans to use hi-resolution Multibeam Echo Sounder.



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Protect and Preserve AE1

Help by entering to win a 13-day small ship expedition cruise around PNG waters



About 12 months ago, one of Australia's most enduring naval mysteries was solved when the wreck of HMAS AE1 was finally discovered. A few months later, a detailed survey uncovered a host of secrets including a likely cause of the sinking.

The Australian E Class Submarine Foundation (AESMF) has now been established and one of its tasks is to understand the environment in which AE1 is lying. It plans to do that with an instrumentation package which will cost around \$120,000.

To help raise some of those funds, APT has donated a 13-day small ship expedition cruise around PNG waters and including the AE1 site departing in October 2019. The cruise is valued at \$27,990 and a raffle has been established with only 1,000 tickets to be sold at \$50 each.



To buy tickets, please visit the [Submarine Institute of Australia](#) website where you will see the link on the home page.

The raffle will be drawn on 1 April 2019 and the winner advised as soon as possible thereafter.

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Navy ACT Interserve Matchplay 2018 Team at Mollymook, NSW

Tough Mollymook layout challenges players

BlueZone Group has supported Navy Golf in the ACT Interservice Matchplay championships staged at Mollymook in October 2018.

Navy played well through the week and ultimately came in a strong second. The tough Mollymook layout challenged all the Navy players but, in the end, they couldn't quite clinch the trophy. Needless, to say they are all looking forward to this year's competition where they will be striving to win!



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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.

SUT Evening Technical Meeting - 13 February – Perth

Surveying Subsea with the Latest Technologies

BlueZone CTO, Darren Burrowes, will join with other presenters for the first Society for Underwater Technology Evening Technical Meeting of the year on the theme Surveying Subsea with the Latest Technologies. Darren will speak on Maritime Robotics for Defence exploring the BlueZone journey in maritime robotics, beginning with the introduction of the first ROV to Offshore Oil & Gas in the Bass Strait through to current work with Navy and Army in unmanned systems.

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Australian Oil & Gas – 13 to 15 March – Perth

This year the BlueZone team will be “walking the exhibition”. We are available for meetings and demonstrations if required. Please contact Mark Musarra, General Manager West Coast.

Ocean Business - 9 to 11 April - Southampton UK

BlueZone Group will be at Ocean Business in Southampton again in 2019 and we are looking forward to meeting with existing and new suppliers, colleagues and friends. Please contact us to set up a meeting if you would like to discuss and issues about sales and support of leading underwater technologies in Australia and New Zealand.

New Products & Services



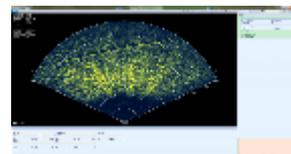
DL24 Acoustic Modem Configurator *Intuitive Programming of Benthos Acoustic Modems*

The DL24 Acoustic Modem Configurator (AMC) simplifies the task of configuring Teledyne Benthos acoustic modems. The intuitive graphical user interface of the AMC is easy for any technical staff to learn and use and eliminates the need to learn modem serial command set. Save time in setting up modems, reduce the risk of mistakes due to incorrect keystrokes and know the status of your batteries before you launch with the DL24 Acoustic Modem Configurator.

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First images from the new RESON SeaBat F50 forward looking sonar *Latest sonar built on new SeaBat Technology*

Teledyne Reson has released images from the new SeaBat F50 forward looking sonar at TMTW 2018 Europe in Cannes. The SeaBat F50 is the latest sonar build on the new SeaBat sonar technology.



The SeaBat F50 is a high-resolution forward-looking sonar system operating at 200kHz or 400kHz that illuminates a wide 140° horizontal sector ahead of the sonar head assembly. The SeaBat F50 may be mounted on a surface vessel, submarine, AUV or ROV and is available in depth ratings up to 6000 meters.

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