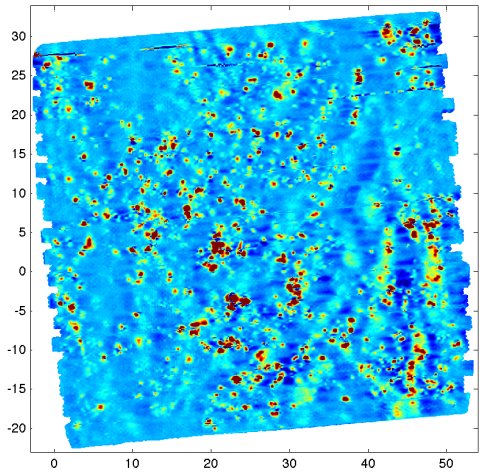
Gap EOD
Explosive Ordnance Detection

Corporate Profile

- *Gap Explosive Ordnance Detection Pty Ltd (Gap EOD) is an industry-leading company dedicated to detection of explosive ordnance and other near-surface targets that require high accuracy and high fidelity results.*
- *Gap EOD was established as a joint venture between Gap Geophysics and Bridgewater Geophysics in 2013, combining advanced sensor technologies and software developed over the last 25 years.*
- *Our goal is to provide clients with better quality and less ambiguous data that are obtained in more efficient and cost-effective ways than possible with conventional instruments and techniques.*
- *Our services are based on innovative technologies that have proven their success in a range of conditions.*



Key Personnel

Dr. Stephen Billings
Steve obtained a PhD degree in Agriculture / Geophysics from the University of Sydney and is Adjunct Professor at the University of British Columbia. He has been Principal Investigator on twelve completed EOD-related projects sponsored by the Strategic Environmental Research and Development Program and Environmental Security Technology Certification Program in the United States. He is a founding director of Black Tusk Geophysics in Canada and of GapEOD in Australia.

Dr. Malcolm Cattach
Mal obtained a PhD degree in Geophysics from the University of New England. He was a founding member of the Geophysical Research Institute at UNE which pioneered development of high performance magnetometers and methodologies. Mal was a co-inventor and lead developer of the Sub-Audio Magnetics technique. He was also a founding director of Milsearch, Geophysical Technology (G-tek) and more recently Gap Geophysics, Gap GeoPak and GapEOD.

Stephen Griffin
Steve has qualifications in Natural Resources Management, Engineering and Geophysics, and has now worked for over thirty years primarily in applying geophysical methods to engineering and environmental problems, as well as supporting Gap Geophysics' core businesses of Mineral Exploration and Explosive Ordnance Detection. He is one of the founders and a director of Gap Geophysics Australia.

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Innovative Technologies

Gap EOD's services are based on innovative geophysical technologies that have proven their success in a wide range of conditions and applications.

UltraTEM: high-definition electromagnetics

- Gap EOD developed the multi-component multi-sensor UltraTEM system, which allows for ultra-high definition digital mapping with high efficiency.
- The UltraTEM system can distinguish closely spaced individual targets, provides accurate estimates of object position and depth, and produces auditable digital recording of all data.
- The use of Gap GeoPak high-power transmitters enables the system to achieve greater imaging depths and to work effectively in areas of magnetic geology that render passive magnetometers and standard EM equipment unusable.
- The UltraTEM system can be deployed in two different primary configurations: Moving Loop that focuses on rapid and efficient Large-Area searches and Fixed Loop for Ultra-Deep investigations of deep targets and for operation in geologically hostile terrain.

UltraMAG: high-definition magnetics

- The highly sensitive and rapid sampling (10 kHz) TM-7 cesium vapour magnetometer system has been specifically designed by Gap Geophysics Australia for multi-sensor high-definition magnetics surveys.
- Based on the TM-7 system, Gap EOD operates a range of magnetic acquisition platforms that include person-carried and vehicle-towed single-, quad-, and octo-sensor systems.
- The TM-7 is the ultimate total-field magnetometer with applications in ground-level UXO and environmental surveys, as well as airborne magnetics and TDEM.
- Accurate positioning and navigation is achieved through DGPS; synchronization uses GPS-sourced 1PPS timing. Absolute error is 0.043 nT at 50,000 nT.

Gap Explosive Ordnance Detection Pty Ltd
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