



meet the Team



Ben Turner is Dayboro's Principle Geoscientist. With decades of experience and eight years at the helm of Dayboro Geophysical. Ben brings considerable experience in all aspects of Seismic Data Processing. Ben has qualifications from the University of Queensland and the University of London Royal Holloway and many years of work experience with Western Geophysical and PGS. He specializes in Depth Imaging and Inversion but is equally comfortable working on complex on-shore seismic or marine data.

Mike West is the Chief Geophysicist at Dayboro and has been since its inception. Mike hails from Canada and has more than three decades of experience in the industry. Mike has undertaken roles as diverse as Area Geophysicist, Field Supervisor and Processing Centre Manager for Western Geophysical as well as Technical Manager for PGS in Cairo and Vice President-Geophysical for Olympic Seismic in Calgary. Mike is a Hard-Core Geophysicist who specializes in Survey Design and Statics, among many other things.



Szilard Albert (Sid) is Dayboro's Senior Geophysicist. Sid stated in the industry in the early nineties with Western Geophysical and then Velseis in Brisbane before coming to work at Dayboro in 2006. Sid has extensive experience processing both Land and Marine 2D and 3D seismic data. Sid's attention to detail and careful methodical approach consistently yields brilliant results for our Clients. No dataset is too complicated for Sid and he thrives on a challenge.

Hamish Wilson is Dayboro's Graduate Geophysicist. With the company since 2011, Hamish is rapidly developing his Geophysical Skills. Hamish is a gifted programmer and assists Dayboro in creating its bespoke processes. Hamish is currently undertaking his Master of Philosophy at the University of Queensland on a part-time basis while he works for Dayboro full-time.



our software Tools



As our primary processing software Dayboro chooses GLOBEClaritas™. Claritas is a mature and powerful package ideally suited for onshore datasets. For your marine data Dayboro will employ OpenCPS from OpenGeophysical. OpenCPS is produced by Dolphin Geophysical to provide high quality processing in support of their fleet of 3D seismic vessels



our Hardware



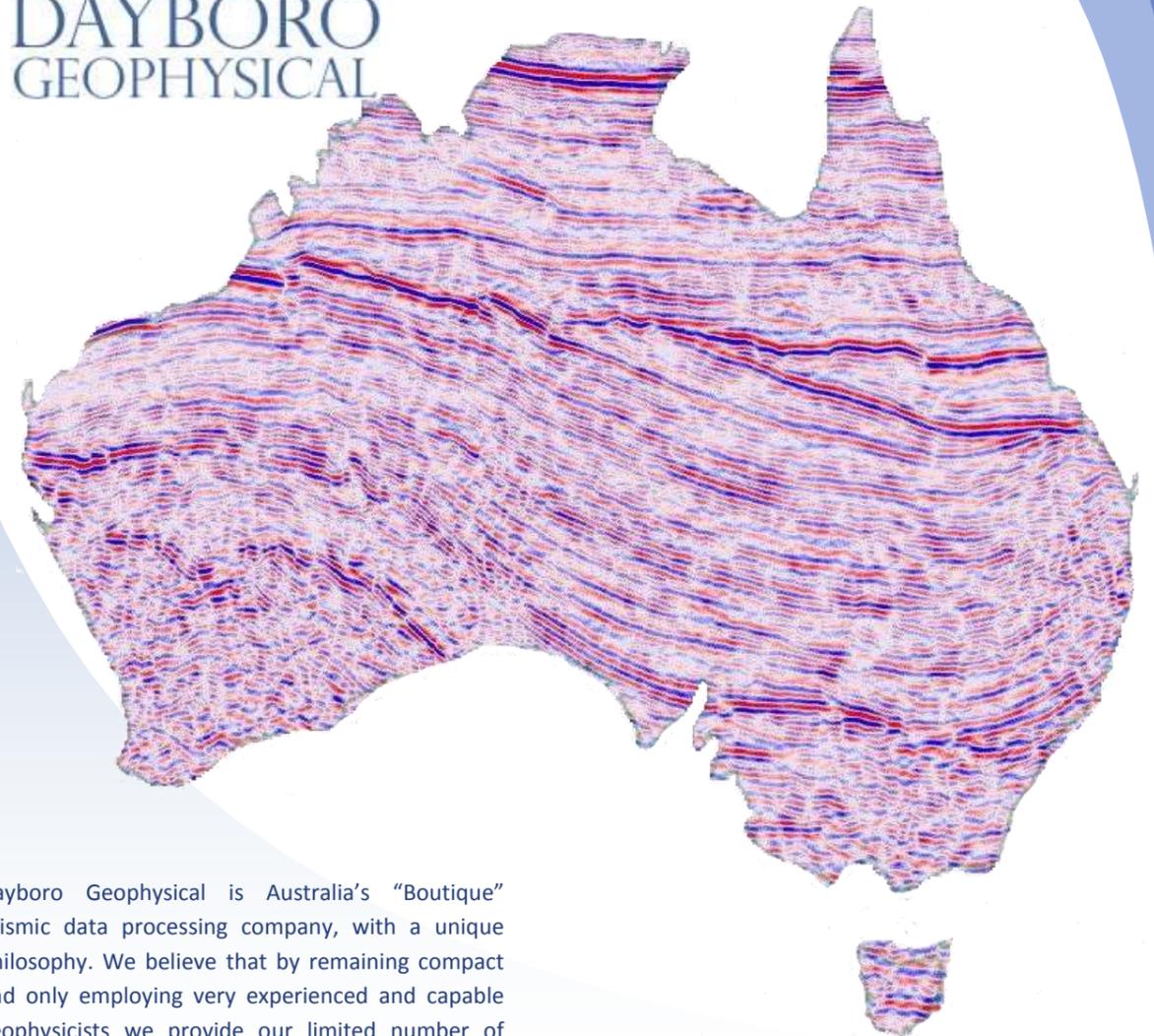
Dayboro's Processing Hardware consists of HP C7000 Blade Cluster Systems. Currently Dayboro can deploy more than 1000 cores for your data and expand the capacity as needed. Dayboro uses state-of-the-art Thecus Disk Arrays with 10Gbe Ethernet connections for super-fast throughput and has the full gamut of tape systems and peripherals as well as numerous dual and triple head HP Workstations. This combined with Direct-Fibre Internet Connections means we can punch well above our weight.

our Contacts

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DAYBORO
GEOPHYSICAL



Dayboro Geophysical is Australia's "Boutique" seismic data processing company, with a unique philosophy. We believe that by remaining compact and only employing very experienced and capable geophysicists we provide our limited number of clients with the best service possible. We have all worked for the big "Sausage Factory" contractors; we know how they take on too much and end up passing the work on to people who have no business doing it. At Dayboro your data will get focused personal attention from leading professionals.

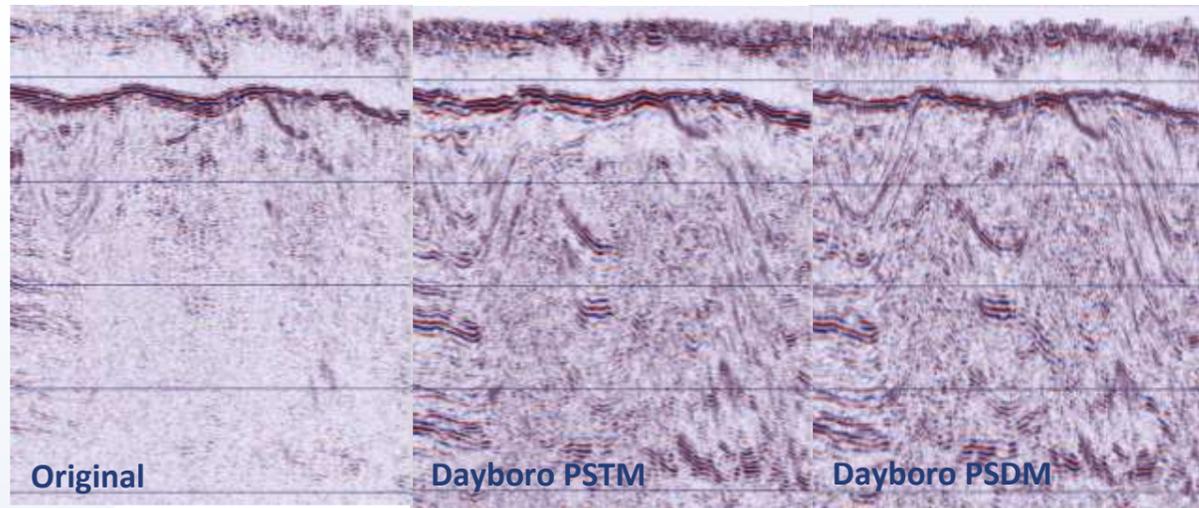
Our "keep it small and simple" philosophy doesn't mean we do not pack a big punch. We have a computer system significantly greater than our needs and can quickly crunch the numbers and take on significant sized projects. At Dayboro, no project is beyond us, but at the same time, we are just as happy to work on a single test line to help our clients understand their seismic better.

we've got Australia Covered



seismic processing **Our Core Business**

Onshore Offshore 2D 3D Time and Depth



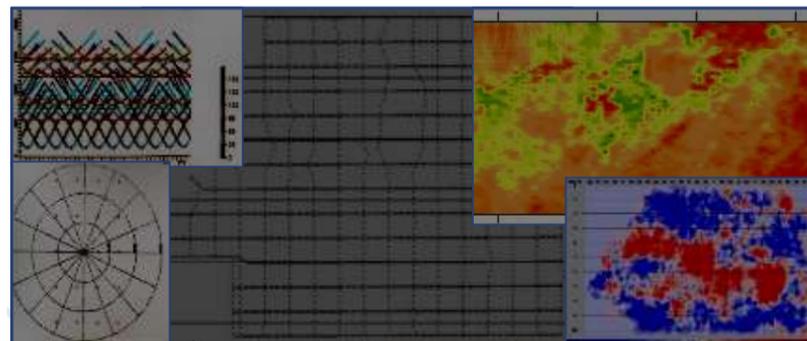
time Imaging

Whether it is a newly acquired survey or some critical vintage data you need reprocessed, Dayboro stands ready to employ our extensive range of tools and our experience to ensure you get the most out of your dataset. Acquiring seismic is expensive so you want it treated with care and attention to detail. For nearly a decade, Dayboro has been breathing new life into vintage data with careful attention to statics and velocities as well as extensive testing for optimal processing parameters. The image above shows the result of our efforts on some early 80's data from the WA Officer Basin. The first two panels show the original processing and our recent PSTM processing, clearly the benefit of modern processing technology and diligence can be seen. Dayboro has experience processing data from nearly every basin in the world; with a heavy focus on Australian, PNG and NZ datasets. We have unique tools available to lift your image up out of the noise, some of which are discussed on the next page. If you have an important dataset you want improved or a critical line that is perplexing you, please give us a call. We are happy to show you what we can do for you on your data.

depth Imaging

Depth imaging is a critical technology in areas with complex geometries and complex velocity regimes. At Dayboro, our Geophysicists have been building velocity models and imaging in depth for more than two decades. Dayboro possesses the complete imaging suite from OpenGeophysical's OpenCPS seismic processing software, licensed to run on our clusters. This package has all the tools required to build and refine the velocity model using Tomography and to image the data using Kirchhoff and other migrations. The third panel above shows our recent efforts imaging the base and sub-salt, previously unseen on the WA Officer Basin dataset. Again, we are keen to show what we can do, so please call us to discuss a test.

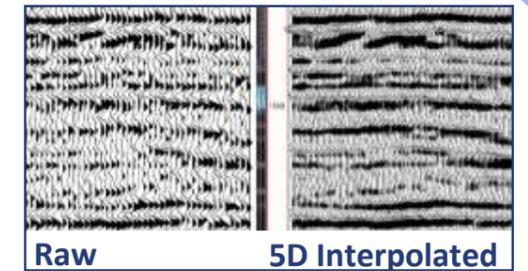
survey Design



Dayboro's Chief Geophysicist Mike West has an almost un-paralleled level of experience in 3D seismic survey design. If you are looking for somebody to help you get the most out of your next acquisition program, we can help. Mike will conduct detailed analysis of fold, offset and azimuth distribution and many other attributes. Not a bad idea to make sure your acquisition contractor is giving you what you need!

unique and powerful Tools your data Needs

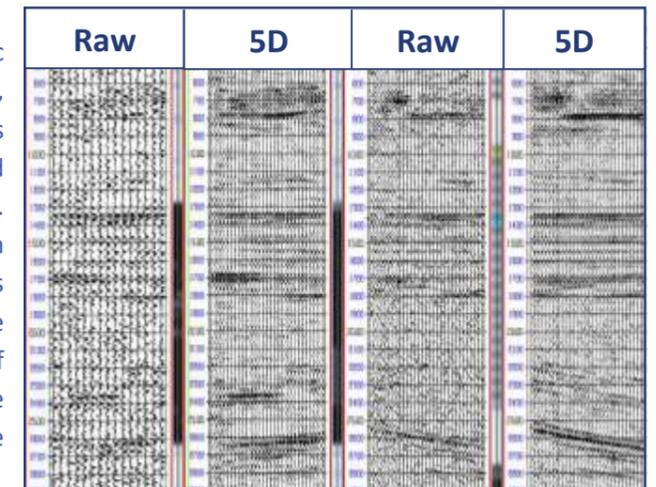
uncompromising 5D Interpolation
and innovative Noise Attenuation



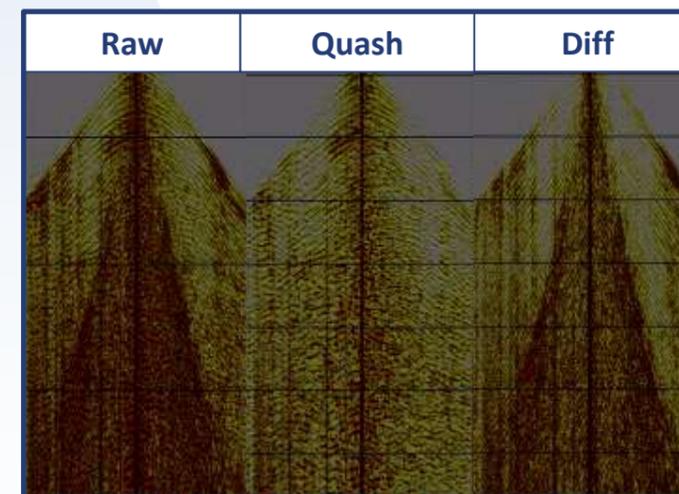
5-d Interpolation

Have a difficult 3D Land dataset? Want to extract more from and old 3D? Want to look at Azimuthal Anisotropy? Dayboro's Industry Leading, Uncompromising 5D Interpolation can help you extract so much more from your data that you ever thought possible. This tool is truly amazing and implemented in such a way as to not cut corners as the other contractors do.

Our program regularizes Pre-stack 3D seismic data in 5-Dimensions; Time, CMPX, CMPY, Azimuth, and Offset. The result of this program is a set of regularized CDP gathers fully populated for each azimuth and all offsets for every CDP. Regularization will help pre-stack migration with cancelation, help remove acquisition imprints and since only the dominant spectral events are being extracted for the output, many forms of noise are left behind. Moreover, you now have Azimuth Sectors well populated so that accurate Azimuthal analysis becomes feasible.



squelch and Quash



Linear and random noise attenuation has long been significant in data processing. In the past, we have been obliged to transform our data into various unfriendly domains to attack the noise. Squelch and Quash are Dayboro's proprietary processes that operate by modelling the noise wherever it is best to do that, and then using advanced adaptive subtraction to remove that noise from the records. This effectively means that the data are not transformed into the "unfriendly" domains, only the noise. The result is always comparable and usually better than conventional methods and maintains its true amplitude character.