



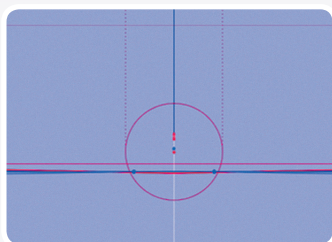
## PAMGUARD

Passive Acoustic Monitoring (PAM) is frequently a regulatory requirement to allow industrial operations at night and in poor conditions when visual observations of marine wildlife is ineffective. The probability of species detection is greatly increased by Passive Acoustic Monitoring (PAM), as many marine mammals produce loud and distinctive vocalisations.

PAMGuard is industry standard software for acoustic detection, localisation and classification of vocalising marine mammals. PAMGuard enhances real-time mitigation monitoring during industrial operations involving sound emission.

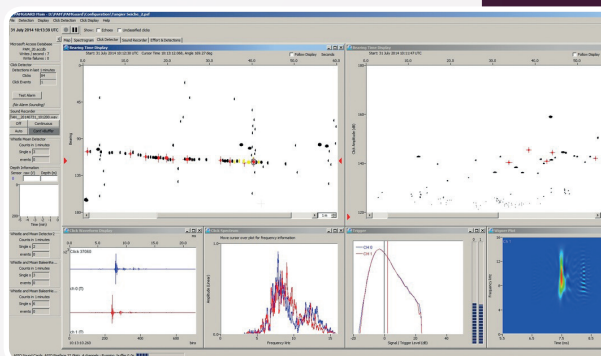
As well as being a sophisticated package that assists trained operators, it is a powerful research tool and can be configured by expert users for additional applications such as underwater sound measurement.

As an open source development, PAMGuard is publicly owned and freely available. Central to the software design is a flexible core architecture which allows the integration of additional plug-ins and new modules. It is capable of working on multiple operating systems (e.g. Windows/Linux) and has a versatile hardware interface for the configuration of in-sea equipment.



PAMGuard software is maintained and updated by specialists through the University of St Andrews. To date, this

has been funded by the IOGP Sound and Marine Life Joint Industry Programme. This is now transitioning to a self-funding mechanism operated through voluntary user contribution.



### CURRENT CONTRIBUTORS



PAMGUARD

[www.pamguard.org](http://www.pamguard.org)