

JIP RESEARCH PROTECTING MARINE LIFE

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Significant progress in exploration and production risk assessment

A major oil & gas industry research programme has been studying possible effects on marine life of sound generated by exploration and production (E&P) activity. In its 11-year history, research funded by the Sound and Marine Life Joint Industry Programme (JIP) has resulted in the publication of more than 45 reports and over 100 peer-reviewed papers by independent scientists.

For the first time, we have now mapped the outcomes of individual JIP studies against a general risk assessment framework. We found that over 90 per cent of all projects that were assessed either have or will provide information relevant to the framework. This means that:

- JIP research contributes significantly to understanding of how to reduce risks to marine life that may be posed by E&P activities
- oil & gas companies, contractors and regulators all have additional information to improve the quality of risk assessment using scientifically based research
- there are potential benefits for informing risk assessment activities outside the oil & gas sector, such as shipping, fishing and pile-driving for windfarms.

The Joint Industry Programme and its objectives

The JIP was founded in 2005 by leading oil companies and the International Association of Geophysical Contractors. Our research programme has a simple, yet important goal – to improve our understanding of potential risks of E&P activities to marine life.

Our objectives are to support planning of E&P projects and risk assessments, to provide the basis for operational measures that protect marine life and to inform policy and regulatory development. So far we have committed US \$55 million to support research in this area. Our main focus has been on understanding potential risks to marine life of sound generated by oil & gas E&P activities, such as seismic surveys.

The E&P risk assessment model

'Risk' is broadly defined in terms of both consequence or impact and the likelihood or probability of the impact happening. So, it is important to note that while some level of impact may be predicted because of a particular activity, such an impact may be highly unlikely to happen.

A risk assessment is a systematic process of evaluating the potential risks of an activity. For any proposed marine E&P activity, a typical first step during the planning phase is to carry out a screening process to determine whether it presents a potentially low, medium or high risk to known marine life sensitivities. Impacts of sound are typically categorised as either physical injury or behavioural response.

ABOUT THE JIP

One of the most extensive environmental industry research programmes bringing together the world's foremost experts across industry, academia and independent research centres.

This fact sheet has been produced by the IOGP E&P Sound and Marine Life Joint Industry Programme (JIP). The JIP was founded in 2005 and supports research to help increase understanding of the potential effect of sound generated by oil and gas exploration and production activity on marine life.

To learn more about the JIP and our research, please visit www.soundandmarinelife.org

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