The Oil and Gas Industry and Impact Assessment: The Protection of Marine Mammals Offshore



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WHO IS THE MMOA?

- MMOs and PAM operators implement mitigation measures to protect marine life during industry operations.
- The Marine Mammal Observer Association (MMOA) is an international non-We aim to work with industry, government agencies, non government profit membership-based global group representing and supporting both organizations and academics to improve the profession's effectiveness and the Marine Mammal Observer (MMO) and Passive Acoustic Monitor (PAM) provide advice on proper and appropriate mitigation practices. to implement mitigation measures in order to protect marine life during
- We require professional experience and sharing of information within the field.
- We maintain an online directory for relevant literature and information for all members.



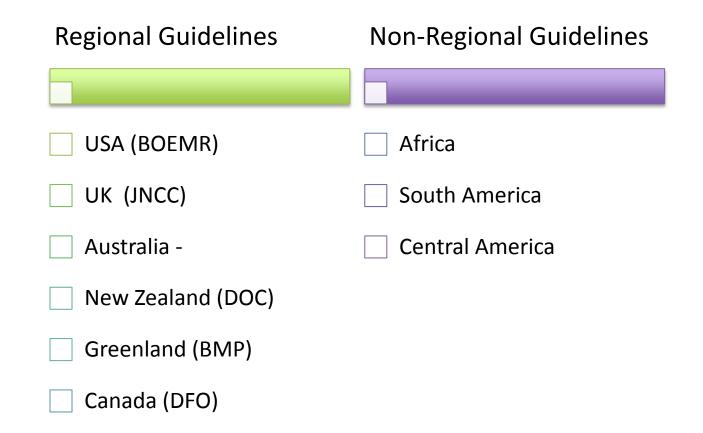




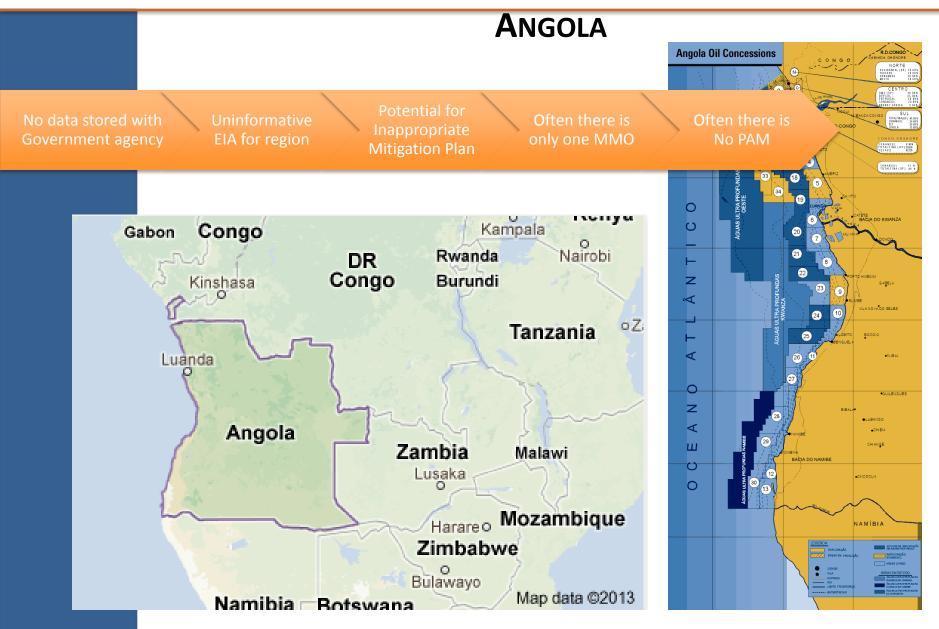




- Current Mitigation Guidelines exist in many regions to reduce the impact on marine mammals and other species, but in current 'hot spot' regions there are no region specific guidelines.
- This leads to non-regional specific guidelines being used by agencies for simplicity and often poor Environmental Impact Assessments (EIAs) created.



CURRENT DECISION MAKING OF IMPACT ASSESSMENTS:





Baseline Data & Past Survey Data

Environmental Impact Assessments

Mitigation

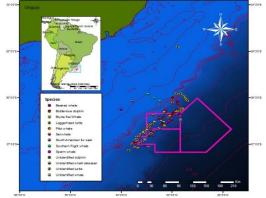


Baseline Data & Past Survey Data

ACHIEVING BASELINE DATA

How can we set mitigation measures without baseline data?

- 1. Need to conduct baseline surveys prior to offshore projects.
- 2. Need to assess the region in which the survey is conducted as offshore blocks may vary due to depth and distance offshore.
- 3. In the absence of baseline data must adopt a strong precautionary principle to protect what potentially is found in the region by utilizing published research applicable to the region.





Environmental Impact Assessmen

GOAL

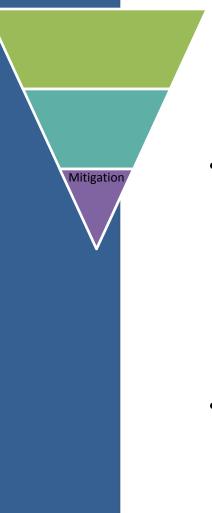
To have all marine mammal and other species of concern mitigation based on region specific scientific information and principals.

Proper Development for any offshore Impact Assessment:

- Determining the Who, What, Where, When, & Why?
- ✓ Are there minimum standards that should be followed?
- Contacting Associations for Position Papers or Information and potential researcher contacts.
- ✓ Appropriate Research by the appropriate parties.
- ✓ Having the ability to utilize regional Government agency data from previous or current offshore projects.



EFFECTIVE MITIGATION MEASURES

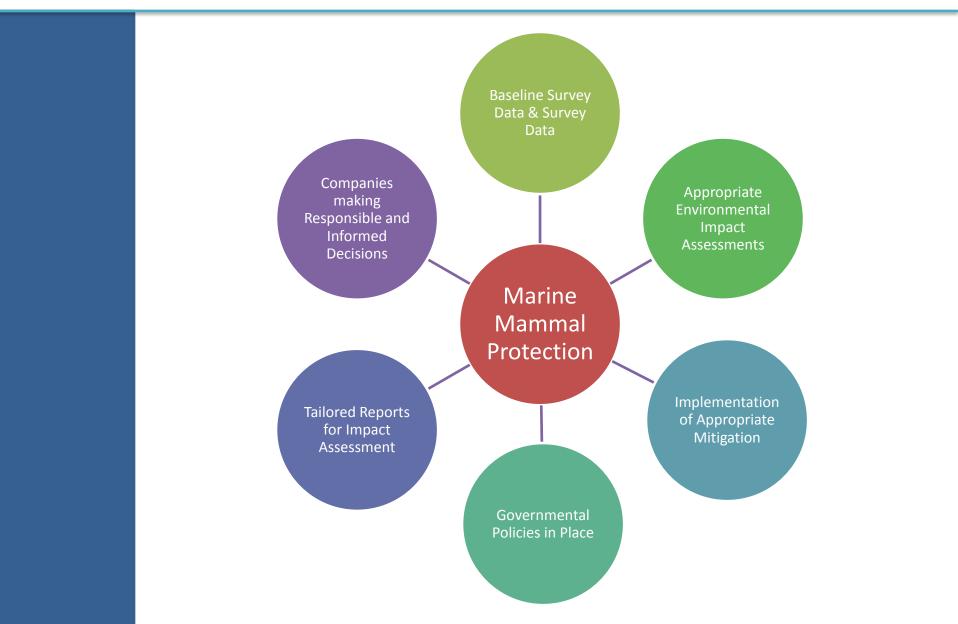


Both baseline data and informative EIAs shape effective mitigation measures. **However**,

- Effective mitigation measures can not be successfully implemented to reduce impact on marine mammals without continuing on the vessel by both;
 - \checkmark the offshore oil & gas company,
 - \checkmark the survey company,
 - ✓ and the trained professional to carry-out mitigation procedures.
- The role of a policy maker or government should be to ensure the measures are followed through the entirety of a project.
- The role of a policy maker or government should be to continually assess the data and modify mitigation measures appropriately.



PROTECTION OF MARINE MAMMALS OFFSHORE





MARINE ScienceDirect POLICY A critical examination of worldwide guidelines for minimising the disturbance to marine mammals during seismic surveys ^{1,*}, Lissa Goodwin^b, Richard Handy^{c,1}, Victor Abbott^d INTELLIGENT **Training Certificate** This is to certify that has completed Joint Nature Conservation Committee Marine Mammal Observer Training Dated : 2nd November 2010

To implement mitigation measures:

- Policy makers should utilize experts, professional associations, and publications, to share information.
- There should be an appropriate EIA in place for the project, completed prior to the survey, and provided to the MMO.
- The consistent hiring of professional and experienced marine mammal observers and passive acoustic monitors, which should be set by the policies in place and enforced throughout the project.

Marine Mammal Observer Association

www.mmo-association.org





Heather McRae