

# C-CORE 2.5 Distribution and abundance of marine mammals

## Distribution and abundance of marine mammals

### Challenge

<b>Challenge ID</b>	C-CORE_OFF2.5
<b>Title</b>	<a href="#">Distribution and abundance of marine mammals</a>
<b>Challenge originator:</b>	
<b>General Description</b>	
<b>What data/products do you use?</b>	Abundance and distribution data from ship-based or aerial surveys
<b>When do you use this kind of dataset?</b>	During seismic and drilling activities to determine impacts of noise on marine mammals and during discharges to determine vulnerability and impact
<b>What are your actual limitations and do you have a work around?</b>	Vessel and aerial surveys are time consuming and expensive. Current data products are adequate but need to be updated and repeated on a regular basis due to high natural variability, seasonal data and weather dependant
<b>Needs and expectations on EO data</b>	High resolution imagery that would allow counting and possibly identifying marine mammals when at the surface. Could be visual or IR
<b>Challenge classification</b>	
<b>Pre license</b>	3
<b>Exp.</b>	3
<b>Dev.</b>	3
<b>Prod.</b>	3
<b>Decom.</b>	3
<b>Geographic context/ restrictions</b>	Western Ireland, Falkland Islands
<b>Topographic classification / Offshore classification</b>	Ocean
<b>Activity impacted /concerned</b>	Cost reduction, reduction of HSE risk associated with vessel based and aerial surveys, improved project planning
<b>Technology Urgency</b>	Short term (2-5 years)
<b>Information requirements</b>	
<b>Update frequency</b>	Weekly-monthly
<b>Temporal resolution</b>	Weekly-monthly
<b>Spatial resolution</b>	1-10m
<b>Data quality</b>	High
<b>Data Coverage and extent</b>	Regional

<b>Example format</b>	High resolution image
<b>Timeliness</b>	Reference data - timeliness not important except for spill
<b>Existing standards</b>	<p>OSPAR Commission. 2009 document. Assessment. ERT Scotland. 2008. Third strategic environmental assessment for oil and gas activity in Ireland's offshore Atlantic waters: IOSEA3 Rockall Basin. Prepared for Department of Communications, Energy and Natural Resources.</p> <p>RPS Energy. 2009. <i>Environmental Impact Assessment for Offshore Drilling The Falkland Islands</i>. Report prepared for Rockhopper Exploration PLC.</p>

## Relevant products

### Content by label

There is no content with the specified labels