

C-CORE 2.6 Distribution and abundance of seabirds

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Challenge

Challenge ID	C-CORE_OFF2.6
Title	Distribution and abundance of seabirds
Challenge originator:	
General Description	
What data/products do you use?	Direct observations of bird-light/flare interactions Direct observations of birds using ship-based and/or aerial surveys
When do you use this kind of dataset?	During exploratory drilling and production when lighted platforms are out there and/or there is flaring During seismic and drilling activities to determine impacts of light on seabirds and during discharges to determine vulnerability and impact
What are your actual limitations and do you have a work around?	Bird mortality due to light and flares is sporadic and dependent on time of year (migration periods) and weather. Assessment is difficult for those reasons, requires constant monitoring, but can affect large numbers of birds (up to 10% of migrating birds in North Sea) 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
Needs and expectations on EO data	Unclear - requires high temporal spatial resolution and cloud penetration High resolution imagery that would allow counting and possibly identifying seabirds. Could be visual or IR
Challenge classification	
Pre license	3
Exp.	1(Ireland), 3
Dev.	1(Ireland), 3
Prod.	1(Ireland), 3
Decom.	1(Ireland)
Geographic context/ restrictions	Western Ireland, Falkland Islands, Morocco / Western Sahara
Topographic classification / Offshore classification	Ocean
Activity impacted /concerned	Cost reduction, reduction of HSE risk associated with vessel based surveys
Technology Urgency	Mid to Long Term (5-10, 10+ years(Ireland))
Information requirements	
Update frequency	Weekly-monthly
Temporal resolution	Weekly-monthly
Spatial resolution	<1m

Data quality	High
Data Coverage and extent	In vicinity of drill site
Example format	High resolution image
Timeliness	As close to real-time as possible
Existing standards	OSPAR Commission. 2009 document. Assessment of impacts of offshore oil and gas activities in the North-East Atlantic. Woods, R., R. Ingham, & A. Brown. 2009. Falkland Islands (Malvinas). Pp 205 – 212 in C. Devenish, D. F. Díaz Fernández, R. P. Clay, I. Davidson & I. Yépez Zabala Eds. <i>Important Bird Areas Americas - Priority sites for biodiversity conservation</i>. Quito, Ecuador: BirdLife International (BirdLife Conservation Series No. 16). Camphuysen CJ. & J. van der Meer. 2010. <i>Wintering seabirds in West Africa: foraging hotspots off Western Sahara and Mauritania driven by upwelling and fisheries</i>. African Journal of Marine Science, Vol. 27(2), pp. 427-437

Relevant products

Content by label

There is no content with the specified labels