C-CORE 2.2 Submarine landslides and seabed stability

Submarine landslides and seabed stability

Challenge

Challenge ID	C-CORE_OFF2.2
Title	Submarine landslides and seabed stability
Challenge originator:	
General Description	
What data/products do you use?	Sidescan, multibeam sonar bathymetry maps, sub-surface data if available
When do you use this kind of dataset?	During seismic surveys to determine susceptibility of substrate to seismic activities and gain information on substrate stability During exploration and development to help determine of anchor placement or location of production platform
What are your actual limitations and do you have a work around?	This data is currently not available unless the area has seen recent multibeam mapping. Current data acquisition is vessel based and thus expensive and time consuming
Needs and expectations on EO data	Not sure, EO capabilities can address this as it requires penetration to ocean floor Unclear - require sub-sediment penetration into ocean floor
Challenge classification	
Pre license	3
Exp.	3, 4(2.37)
Dev.	4(2.37)
Prod.	
Decom.	
Geographic context/ restrictions	Western Ireland, Eastern Mediterranean, Morocco / Western Sahara Everywhere(2.37)
Topographic classification / Offshore classification	Ocean
Activity impacted /concerned	Strategic decision enabler Cost reduction, reduction of HSE risk associated with vessel based surveys (2.37)
Technology Urgency	Mid-Term (5-10 years)
Information requirements	
Update frequency	One-off
Temporal resolution	None
Spatial resolution	10-100m
Data quality	High

Data Coverage and extent	District area
Example format	High resolution image
Timeliness	Reference data - timeliness not important
Existing standards	 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 Galil B. and Herut B. 2011. <i>Marine environmental issues of deep-sea exploration and exploitation activities (oil and gas) off the coast of Israel.</i> IO LR Report H15/2016 Georgiopoulou, A., S. Krastel, D. G. Masson and R. B. Wynn. 2007. <i>Repeate d Instability Of The New African Margin Related To Buried Landslide Scarps.</i> Pp. 29-36 in <i>Submarine</i> Mass Movements and Their Consequences , Advance s in Natural and Technological Hazards Research Vol. 27.

Relevant products

Content by label

There is no content with the specified labels