

CLS-4.1: SAR imagery to detect ships and icebergs

SAR imagery to detect ships and icebergs

Challenge

CLS_OFF.4.1 : SAR imagery to detect ships and icebergs

1	Challenge ID	CLS_OFF.4.1				
2	Title	SAR imagery to detect ships and icebergs				
3	Originator of Challenge	STATOIL				
	General description					
4	What data/products do you currently use ?	SAR imagery (ships and icebergs) with NOFO daily Metocean data for the drift model.				
5	When do you use this kind of dataset?	Contingency plans, iceberg & sea-ice detection These products are usefull to monitor the drift of an iceberg next to a platform and to monitor ships around the platform.				
6	What are your actual limitations and do you have a work around?	Ocean models: • there's a need to improve the quality and the reliability of these models to meet with O&G needs. Reliability indicators are needed. • Enhancing hindcats quality at fix point				
7	Needs and expectations on EO data	SAR: • Synoptic (every 6 hours) observations • Multi-band observations • Better coverage at low latitude				
	Challenge classification					
8	Lifecycle stage	<i>Pre license</i>	<i>Exp.</i>	<i>Dev.</i>	<i>Prod.</i>	<i>Decom.</i>
	Score from impact				4	
9	Geographic context /restrictions	Main region of interest: • Caspian Sea • Angola • Brazil • Mozambique • Ireland • South Africa				
10	Topographic classification / Offshore classification	n/a				
11	Activity impacted /concerned	n/a				
12	Urgency (How quickly does the user need the solution)	Mid-term (5-10 years) for SAR dual frequency;				
	Information requirements					

13	Update frequency	Synoptic for marine weather and icebergs, daily for sea ice
14	Temporal resolution	n/a
15	Spatial resolution	SAR: 30 m is OK, finer resolution for small iceberg, growlers detection is obtained by vessel borne radars.
16	Data quality	n/a
17	Data Coverage and extent	n/a
18	Example formats	n/a
19	Timeliness	Once a day for ocean data, 4 time a day for weather data
20	Existing standards	n/a

Relevant products

Content by label

There is no content with the specified labels