

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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